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SUMMER SESSION.

On 1st May the Lectures will be commenced.

ANATOMY, { PRACTICAL ANATOMY, 9 a.m. till 4 p.m. }	Dr P. D. HANDYSIDE.
{ COURSE OF DEMONSTRATIONS, 11 a.m. }	
CHEMISTRY, { PRACTICAL CHEMISTRY, 9 a.m. till }	Dr STEVENSON MACADAM
{ ANALYTICAL CHEMISTRY, 5 p.m. }	
CHEMISTRY, { PRACTICAL CHEMISTRY, 9 a.m. till }	Mr J. FALCONER KING.
{ ANALYTICAL CHEMISTRY, 5 p.m. }	(18 Chambers' Street.)
CHEMISTRY, { PRACTICAL CHEMISTRY, 9 a.m. till }	Mr J. VISON MACADAM.
{ ANALYTICAL CHEMISTRY, 5 p.m. }	
MATERIA MEDICA AND THERAPEUTICS (Surgeons' Hall), 9 a.m.	Dr FRANCIS W. MOINET.
MATERIA MEDICA AND THERAPEUTICS, (School of Arts, Chambers Street), 9 a.m.	(Surgeons Hall.)
MIDWIFERY AND DISEASES OF WOMEN AND CHILDREN (Surgeons' Hall), 10 a.m.	Dr WILLIAM CRAIG.
MIDWIFERY AND DISEASES OF WOMEN AND CHILDREN (11 Nicolson Square), 10 a.m.	(S. of Arts, Chambers St.
MIDWIFERY AND DISEASES OF WOMEN AND CHILDREN (School of Arts, Chambers' Street), 10 a.m.	Dr KEILLER.
MEDICAL JURISPRUDENCE AND PUBLIC HEALTH, 11 a.m.	(Surgeons Hall.)
ROYAL INFIRMARY, 12 noon.	Dr UNDERHILL.
CLINICAL MEDICINE (Royal Infirmary) Tuesdays and Fridays } 12 noon.	(11 Nicolson Square.)
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CLINICAL SURGERY (Royal Infirmary), Mondays and Thursdays, 12 noon.	(S. of Arts, Chambers St.)
" " Tutorial Class for Practical Surgery, }	Dr LITTLEJOHN.
PRACTICAL PHYSIOLOGY, }	{ Drs GEO. W. BALFOUR,
NATURAL HISTORY (ZOOLOGY AND COMPARATIVE ANATOMY (Surgeons' Hall), 2 p.m.	CLAUD MUIRHEAD, &
DISEASES OF THE EYE (Seven Weeks' Course) 9 a.m.	BRACKENRIDGE.
DISEASES OF THE EAR, (with Clinical Instruction at Dispensary, 6 Cambridge Street, Lothian Road), 11 a.m.	Dr ANGUS MACDONALD.
VACCINATION (Royal Dispensary), Wednesdays and Saturdays (six Weeks' Course), 12 noon.	(For Diseases of Women.)
PATHOLOGICAL HISTOLOGY (Tuesdays and Fridays), 3 p.m.	Dr JAMES.
INSANITY, Mondays and Thursdays, (with practical instruction in Asylum Wards), 3 p.m.	{ Mr JOSEPH BELL.
SYPHILOLOGY (11 Nicolson Square) Mondays and Thursdays, 3 p.m.	Mr CALDER.
DISEASES OF CHILDREN, Tuesdays and Fridays, (with Clinical Instruction daily at Sick Child. Hosp.) 3 p.m.	Dr JAMES.
DISEASES OF THE SKIN (11 Nicolson Square), 3 p.m.	{ Dr ANDREW WILSON.
OPERATIVE AND PRACTICAL SURGERY, 4 p.m.	Dr ARGVLL ROBERTSON.
SURGICAL APPLIANCES AND OPERATIVE SURGERY, (1 Surgeons' Square), 4 p.m.	Dr KIRK DUNCANSON.
SURGICAL ANATOMY AND OPERATIVE SURGERY, (11 Nicolson Square), 4 p.m.	(1 Surgeons Square.)
PRACTICAL SURGERY, (6 Infirmary Street), 4 p.m.	Dr HUSBAND.
	Dr JOHN WYLLIE.
	Dr J. BATTY TUKE.
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Advertisements.

WINTER SESSION.

On 1st October the Practical Anatomy Rooms and Chemical Laboratories will be opened.

On 29th October, the Inaugural Address will be delivered at Eleven o'clock.

On 30th October the Lectures will be commenced.

ANATOMY,	{ PRACTICAL ANATOMY, 9 a.m. till 4 p.m. }	Dr P. D. HANDYSIDE.
	{ COURSE OF LECTURES, 1 p.m. }	
	{ COURSE OF DEMONSTRATIONS, 4 p.m. }	
CHEMISTRY,	{ LECTURES, 10 a.m. }	Dr STEVENSON MACADAM.
	{ PRACTICAL CHEMISTRY, 9 a.m. till 5 p.m. }	
	{ ANALYTICAL CHEMISTRY, 5 p.m. }	
CHEMISTRY,	{ PRACTICAL CHEMISTRY, 9 a.m. till 5 p.m. }	Mr J. FALCONER KING.
	{ ANALYTICAL CHEMISTRY, 5 p.m. }	(18 Chambers' Street.)
CHEMISTRY,	{ PRACTICAL CHEMISTRY, 9 a.m. till 5 p.m. }	Mr IVISON MACADAM.
	{ ANALYTICAL CHEMISTRY, 5 p.m. }	
MATERIA MEDICA AND THERAPEUTICS	. . . . . 9 a.m.	Dr FRANCIS W. MOINET
SURGERY, . . . . .	. . . . . 10 a.m.	Dr P. H. WATSON.
SURGERY (11 Nicolson Square), . . . . .	. . . . . 10 a.m.	{ Mr CHIENE.
		{ (11 Nicolson Square.)
SURGERY (6 Infirmary Street), . . . . .	. . . . . 10 a.m.	{ Dr JOHN DUNCAN.
		{ (6 Infirmary Street.)
MIDWIFERY AND DISEASES OF WOMEN AND CHILDREN (11 Nicolson Square), . . . . .	. . . . . 11 a.m.	{ Dr ANGUS MACDONALD.
		{ (11 Nicolson Square.)
INSTITUTES OF MEDICINE, . . . . .	. . . . . 11 a.m.	Dr JAMES.
ROYAL INFIRMARY, . . . . .	. . . . . 12 noon.	
CLINICAL MEDICINE (Royal Infirmary), Tuesdays and Fridays,	. . . . . 12 noon.	{ Drs GEO. W. BALFOUR,
		{ CLAUD MUIRHEAD, and
		{ BRAKENRIDGE.
		{ Dr ANGUS MACDONALD.
		{ (For Diseases of Women.)
		{ Dr JAMES.
" " Tutorial Class for Physical Diagnosis,		
CLINICAL SURGERY (Royal Infirmary), Mondays and Thursdays,	. . . . . 12 noon.	Mr JOSEPH BELL.
" " Tutorial Class for Practical Surgery,		Mr CALDER.
MEDICAL JURISPRUDENCE AND PUBLIC HEALTH,	. . . . . 2 p.m.	Dr LITTLEJOHN.
PRACTICE OF PHYSIC, . . . . .	. . . . . 3 p.m.	Dr RUTHERFORD HALDANE.
PRACTICE OF PHYSIC (11 Nicolson Square), . . . . .	. . . . . 3 p.m.	{ Dr CLAUD MUIRHEAD.
		{ (11 Nicolson Square.)
NATURAL HISTORY (ZOOLOGY AND COMPARATIVE ANATOMY), Surgeons' Hall, . . . . .	. . . . . 3 p.m.	Dr ANDREW WILSON.
GENERAL PATHOLOGY AND PATHOLOGICAL ANATOMY, . . . . .	. . . . . 4 p.m.	Dr JOHN WYLLIE.
DISEASES OF THE EAR (with Clinical Instruction at Dispensary, 6 Cambridge Street, Lothian Road), . . . . .	. . . . . 11 a.m.	{ Dr KIRK DUNCANSON.
		{ (1 Surgeons' Square.)
VACCINATION (Royal Dis.) 6 Weeks' Course, commencing Nov.,		Dr HUSBAND.
DISEASES OF CHILDREN—Clinical Instruction daily at Sick Children's Hospital,		{ Dr R. PEEL RITCHIE.
PRACTICAL GYNÆCOLOGY (School of Arts and Western Dispensary 5 p.m.	{ Dr HALLIDAY CROOM.

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Assistant Physicians,	{ Dr JOHN WYLLIE.
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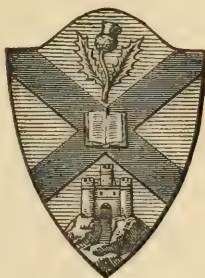


THE EDINBURGH
UNIVERSITY CALENDAR.



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1878-79



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PREFACE.

THE EDINBURGH UNIVERSITY CALENDAR is the only authorized Academical Organ for the publication of the Annual Programme of the Classes, the Synopses of the Courses delivered in each year by the Professors, the Class Prize Lists, the Regulations and Subjects of Examination for Degrees in Arts, Science, Medicine, Law, and Divinity, the Questions proposed to Candidates for Degrees, the Annual Graduation Lists, and a full account of the Bursaries, Scholarships, Fellowships, and other Endowments of the University.

The CALENDAR is intended to be an Academical Manual for Students, Members of the General Council, and others interested in the University.

The CALENDAR for the present year contains the Official Announcements regarding the lately instituted Degrees of Bachelor of Laws (LL.B.), Bachelor of Law (B.L.), Bachelor of Divinity, and Bachelor and

Doctor of Science; a Record of the recent Benefactors of the University; an Abstract of the Proceedings of the University Court; Deeds of Foundation of New Bursaries, Scholarships, &c.; and a List of the Members of the General Council. The Regulations for the Examination of Candidates for appointments in the Army, for the Civil Service of India, the Regulations for University Certificates for Women, and Regulations for University Local Examinations are also contained in the present CALENDAR.

A Statement of the Annual Income and Expenditure of the University is now included in the CALENDAR.

Communications may be addressed to the "Editor of the Edinburgh University Calendar," at the University.

UNIVERSITY OF EDINBURGH,
May 1, 1878.

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The Calendar.

1878—MAY, 31 DAYS.

1	W	<i>Summer Classes in Medicine, and Tutorial Classes in Arts open.</i>
2	Th	
3	Fr	
4	Sa	
5	S	
6	M	
7	Tu	
8	W	
9	Th	
10	Fr	
11	Sa	
12	S	
13	M	
14	Tu	Court of Session Sits.
15	W	Whitsunday Term.
16	Th	<i>Summer Classes in Law Open.</i>
17	Fr	
18	Sa	
19	S	
20	M	
21	Tu	
22	W	<p>General Assembly Meets.</p> <p>{ Last day for Names for Final Med. Exam. to be given in and fees paid. Queen born, 1819.</p>
23	Th	
24	Fr	
25	Sa	
26	S	
27	M	
28	Tu	
29	W	
30	Th	
31	Fr	<i>Meeting of Senatus Academicus.</i>

JUNE, 30 DAYS.

1	Sa	
2	S	
3	M	
4	Tu	<i>Final Prof. Exam. Surg. (12-2); Midwif. (2.30-4.30).</i>
5	W	<i>Do. do.—Prac. Phys. (12-2); Legal Med. (2.30-4.30).</i>
6	Th	
7	Fr	
8	Sa	
9	S	{ <i>Final Med. Oral Exams. commence. Clin. Exams. in Royal Infirmary three days a-week till first week in July.</i>
10	M	
11	Tu	
12	W	
13	Th	
14	Fr	
15	Sa	
16	S	
17	M	
18	Tu	<i>University Local Examinations commence.</i>
19	W	
20	Th	
21	Fr	
22	Sa	
23	S	
24	M	<i>Exam. for Deg. in Law commence. Midsummer.</i>
25	Tu	{ <i>Last day for Names for 2d Prof. Exam. to be given in, and Fees paid.</i>
26	W	
27	Th	
28	Fr	<i>Meeting of Senatus Academicus.</i>
29	Sa	
30	S	

JULY, 31 DAYS.

1	M	{ <i>Last day for applications for vacant Mathematical Examinership in Arts.</i>
2	Tu	
3	W	<i>2d Prof. Med. Exam.—Anat., 12-2; Phys., 2.30-4.30.</i>
4	Th	<i>Do. Mat. Med., 12-2; Pathol., 2.30-4.30.</i>
5	Fr	
6	Sa	
7	S	{ <i>Meeting of University Court for appointment of Examiner in Mathematics. Second Professional Oral Examinations commence.</i>
8	M	
9	Tu	
10	W	
11	Th	
12	Fr	
13	Sa	
14	S	
15	M	{ <i>Last day for Names of Graduates in Medicine to be given in, and Fees paid.</i>
16	Tu	
17	W	
18	Th	
19	Fr	<i>Classes in Arts and Law close.</i>
20	Sa	<i>Court of Session rises.</i>
21	S	
22	M	
23	Tu	
24	W	
25	Th	
26	Fr	<i>Classes in Medicine close. Meeting of Sen. Academ.</i>
27	Sa	
28	S	
29	M	
30	Tu	
31	W	

AUGUST, 31 DAYS.

1	Th	<i>Degrees in Medicine conferred.</i>
2	Fr	
3	Sa	
4	S	
5	M	
6	Tu	
7	W	
8	Th	
9	Fr	
10	Sa	
11	S	
12	M	<i>University Library closed.</i>
13	Tu	
14	W	
15	Th	
16	Fr	
17	Sa	
18	S	
19	M	
20	Tu	
21	W	
22	Th	
23	Fr	
24	Sa	
25	S	
26	M	
27	Tu	
28	W	
29	Th	
30	Fr	
31	Sa	

SEPTEMBER, 30 DAYS.

1	S	{ Names for Ferguson Scholarships to be announced before this day.
2	M	
3	Tu	
4	W	
5	Th	
6	Fr	
7	Sa	
8	S	
9	M	<i>University Library opened.</i>
10	Tu	
11	W	
12	Th	
13	Fr	
14	Sa	
15	S	
16	M	
17	Tu	
18	W	
19	Th	
20	Fr	
21	Sa	
22	S	
23	M	
24	Tu	
25	W	
26	Th	
27	Fr	
28	Sa	
29	S	
30	M	

OCTOBER, 31 DAYS.

1	Tu	{	<i>Matriculation commences. Names for Prel. Exam. in Med. and for Science Exams. to be given in and fees paid. Exam. for Ferguson Scholarships—First Day.</i>		
2	W		<i>Do.</i>	<i>do.</i>	<i>Second Day.</i>
3	Th				
4	Fr				
5	Sa				
6	S				
7	M		<i>Annual Inspection of University Library.</i>		
8	Tu	{	<i>Prelim. Exam. in Med. and Science—English, 9 o'clock; Arithmetic, 11.30; Latin, 2.</i>		
9	W		<i>Do., Elem. of Math., 9 o'clock; Mechanics, 11.30; French, 2. Names for 1st Prof. Exam. to be given in and fees paid.</i>		
10	Th		<i>Do., German, 9 o'clock; Logic, 11.30; Nat. Phil., 2.</i>		
11	Fr		<i>Do., Higher Math., 9; Greek, 11.30; Mor. Phil., 2.</i>		
12	Sa				
13	S				
14	M	{	<i>Meeting of Univ. Court for appt. of Assist. Registrars, and approval of Class Assistants.</i>		
15	Tu		<i>Annual Inspection of Univ. Library ends.</i>		
16	W		<i>Last day for Names of Candidates for M.A. to be announced to Secy. and fees paid. Court of Session sits.</i>		

OCTOBER—continued.

17	Th	{ <i>First Prof. Exam. in Med., Chem., 11-1; Nat. His., 2-4. First B.Sc. Exam., Phys. and Nat. Scien., Chem., 11-1; Nat. Hist., 2-4. Public Health, Chem., 11-1; Physics, 2-4. Engineering, Chem., 11-1. Second B.Sc. Exam. Exper. Physics, &c., Chem., 11-1 and 2-4; Engineering, 11-1 and 2-5.</i>
18	Fr	{ <i>First Prof. Exam. in Med., Botany, 11-1. First B.Sc. Exam., Phys. and Nat. Sc., Botany, 11-1; Public Health, San. Law, 11-1; Vital Stat., 2-4. Second B.Sc. Exam., Engineering, 11-1 & 2-5.</i>
19	Sa	<i>Exam. in Public Health. Practical Chemistry.</i>
20	S	
21	M	{ <i>Pass Examinations for M.A.—1st day, Latin, 9-11, 12-2; Mathematics, 2.30-4.30. First Prof. Exam. in Med., Pract. Chem., 10. First B.Sc. Exam., Phys. and Nat. Sciences and Engineering, Pract. Chem., 10; Mathematics, 3-5.</i>
22	Tu	{ <i>Pass Examinations for M.A.—2d day, Mathemat., 9-11; Greek, 1-4. First B.Sc. Exam., Phys. and Nat. Sciences and Engineering, Mathem., 9-11.</i>
23	W	{ <i>Pass Examinations for M.A.—3d day, Log., 9-12; Nat. Phil., 1-4. First B.Sc. Exam., Phys. and Nat. Sciences and Engineering, Nat. Phil., 1-4.</i>
24	Th	<i>Sacramental Fast-Day.</i>
25	Fr	{ <i>Meeting of General Council at 1 o'clock. Pass Examinations for M.A.—4th day, Moral Philosophy, 9-12; Rhetoric, 1-4. Second B.Sc. Exam. in Public Health.</i>
26	Sa	{ <i>Entrance Examinations for Curriculum of Three Sessions in Arts and for Bursaries.</i>
27	S	
28	M	<i>Meeting of Senatus Academicus.</i>
29	Tu	WINTER SESSION OPENS.
30	W	
31	Th	

NOVEMBER, 30 DAYS.

1	Fr	
2	Sa	
3	S	
4	M	
5	Tu	<i>Divinity Classes open.</i>
6	W	
7	Th	
8	Fr	
9	Sa	
10	S	
11	M	Martinmas.
12	Tu	
13	W	
14	Th	<i>Examinations in Divinity commence.</i>
15	Fr	
16	Sa	
17	S	
18	M	
19	Tu	
20	W	
21	Th	
22	Fr	
23	Sa	
24	S	
25	M	
26	T	
27	W	
28	Th	
29	Fr	
30	Sa	<i>{ Meeting of Senatus Academicus. { Registration of Members of Gen. Council for 1879 ends.</i>

DECEMBER, 31 DAYS.

1	S	
2	M	
3	Tu	
4	W	
5	Th	
6	Fr	
7	Sa	
8	S	
9	M	
10	Tu	
11	W	
12	Th	
13	Fr	
14	Sa	<i>Meeting of Senatus Academicus.</i>
15	S	
16	M	
17	Tu	
18	W	
19	Th	{ <i>Classes rise for Christmas Holidays. Examinations for Shaw and Guthrie Fellowships and for Scho- larships commence.</i>
20	Fr	
21	Sa	
22	S	
23	M	
24	Tu	
25	W	CHRISTMAS DAY.
26	Th	
27	F	
28	Sa	
29	S	
30	M	
31	Tu	

1879—JANUARY, 31 DAYS.

1	W	
2	Th	
3	Fr	
4	Sa	
5	S	
6	M	<i>Classes reassemble after Christmas holidays.</i>
7	Tu	
8	W	
9	Th	
10	Fr	
11	Sa	
12	S	
13	M	{ <i>Last day for applications for additional Examiner- ships in Botany and Medical Jurisprudence.</i>
14	Tu	
15	W	
16	Th	
17	Fr	
18	Sa	
19	S	{ <i>Meeting of Univ. Court for hearing Registration Appeals, and appointment of Examiners in Medi- cine and in Divinity, Law, and C.E. when vacant.</i>
20	M	
21	Tu	
22	W	
23	Th	
24	Fr	
25	Sa	<i>Meeting of Senatus Academicus.</i>
26	S	
27	M	
28	Tu	
29	W	
30	Th	
31	Fr	

FEBRUARY, 28 DAYS.

1	Sa	
2	S	
3	M	
4	Tu	
5	W	
6	Th	
7	Fr	
8	Sa	
9	S	
10	M	<i>Holiday in Faculty of Arts.</i>
11	Tu	
12	W	
13	Th	<i>Reid Commemoration Concert.</i>
14	Fr	
15	Sa	
16	S	
17	M	
18	Tu	
19	W	
20	Th	
21	Fr	
22	Sa	<i>Meeting of Senatus Academicus.</i>
23	S	
24	M	
25	Tu	
26	W	
27	Th	
28	Fr	

MARCH, 31 DAYS.

1	Sa	
2	S	
3	M	{ <i>Last Day for Names for Prelim. Exam. in Med. and for Phys. or</i>
4	Tu	{ <i>Nat. Science Degrees to be given in and Fees paid.</i>
5	W	
6	Th	
7	Fr	
8	Sa	
9	S	
10	M	
11	Tu	{ <i>Prelim. Exam. for Med. and Science—English, 9 o'clock; Arith-</i>
12	W	<i>metic, 11.30; Latin, 2.</i>
13	Th	<i>Do. Elem. of Math., 9; Mechanics, 11.30; French, 2.</i>
14	Fr	<i>Do. German, 9; Logic, 11.30; Nat. Phil., 2.</i>
15	Sa	<i>Do. Higher Math., 9; Greek, 11.30; Moral Philosophy, 2.</i>
16	S	
17	M	
18	Tu	
19	W	<i>Last day for Names for 1st Prof. Exam. to be given in and Fees paid.</i>
20	Th	
21	Fr	{ <i>Last Day for Names of Candidates for M.A. and payment of Fees,</i>
22	Sa	{ <i>and for Theses for D.Sc. in Mental Science and Philology to be</i>
23	S	<i>given in. Law Classes close.</i>
24	M	
25	Tu	
26	W	
27	Th	
28	Fr	<i>Classes in Divinity and Medicine close.</i>
29	Sa	<i>Meeting of Senatus Academicus.</i>
30	S	
31	M	{ <i>Last Day for Names for 2d Prof. Exam. in Med. and for B.D. to</i>
		<i>be given in and Fees paid.</i>

APRIL, 30 DAYS.

1	Tu	{ <i>First Professional Exam. in Med.</i> , Chemistry, 11-1; Nat. Hist., 2-4. <i>First B.Sc. Exam. Phys. and Nat. Sciences</i> —Chemistry, 11-1; Nat. Hist., 2-4; <i>Pub. Health</i> , Chemistry, 11-1; Physics, 2-4; <i>Engineering</i> —Chemistry, 11-1. <i>Second B.Sc. Exam.</i> , <i>Experimental Physics</i> , &c., Chemistry, 11-1 and 2-4; <i>Engineering</i> , 11-1 and 2-5.
2	W	{ <i>First Profess. Exam. in Med.</i> , Botany, 11-1. <i>First B.Sc. Exam.</i> , <i>Phys. and Nat. Sc.</i> , Botany, 11-1; Public Health, Sanitary Law, 11-1: Vital Statistics, 2-4. <i>Second B.Sc. Exam.</i> , <i>Engineering</i> , 11-1 and 2-5.
3	Th	{ <i>First Prof. Exam. in Med. and First B.Sc.</i> , <i>Phys. and Nat. Sc. and Engineering</i> —Practical Chemistry, 10 A.M.
4	Fr	
5	Sa	<i>First Med. Prof. Oral Exams. commence.</i>
6	S	
7	M	<i>Examinations in Divinity commence.</i>
8	Tu	
9	W	{ <i>Second Prof. Exam. in Medicine</i> —Anatomy, 12-2; Physiology, 2.30-4.30. <i>Second B.Sc. Exam. in Public Health.</i>
10	Th	{ <i>Do.</i> , <i>Materia Medica</i> , 12-2; <i>Pathology</i> , 2.30-4.30. <i>Classes in Faculty of Arts close.</i>
11	Fr	GOOD FRIDAY.
12	Sa	{ <i>Pass Examination for M.A.</i> —1st day, Latin, 9-11; 12-2; Mathematics, 3-5. <i>First B.Sc. Exam.</i> , <i>Phys. and Nat. Sc. and Engineering</i> , Mathematics, 3-5.
13	S	EASTER SUNDAY.
14	M	{ <i>Pass Examination for M.A.</i> —2d day, Mathematics, 9-11; Greek, 1-4. <i>First B.Sc. Exam.</i> , <i>Phys. and Nat. Sc. and Engineering</i> , Mathematics, 9-11. <i>Meeting of University Court.</i>
15	Tu	{ <i>Pass Examination for M.A.</i> —3d day, Logic, 9-12; Natural Philosophy, 1-4. <i>First B.Sc. Exam.</i> , <i>Phys. and Nat. Sc. and Engin.</i> , Nat. Phil., 1-4. <i>Meeting of General Council at 1 o'clock.</i>

APRIL—continued.

16	W	{ <i>Pass Examination for M.A.—4th day, Moral Phil. 9;</i> <i>Rhetoric, 1 ; and Mathematics for Sc. Degrees</i>
17	Th	{ <i>Honours Exam. for M.A. and Exam. for D.Sc. in</i> <i>Mental Science and Philology.</i>
18	Fr	<i>Do., do., 2d day.</i>
19	Sa	<i>Do., do., 3d day.</i>
20	S	
21	M	
22	Tu	GRADUATION CEREMONIAL IN ARTS, &c.
23	W	
24	Th	Sacramental Fast Day.
25	Fr	
26	Sa	
27	S	Communion Sunday in Edinburgh and Leith.
28	M	
29	Tu	
30	W	<i>Theses for M.D. to be given in on or before this day.</i>

SUMMER SESSION, 1878.

Classes.	Days of Opening, and Hours of Attendance.	Professors.	Class Fee.
Engineering, (Surveying, Levelling, &c.)	} May 6, 9 o'clk.	Prof. F. Jenkin, ...	£3 3
Natural Philos. (short course for Med. Stu.)	} May 8, 11 o'clk.	Prof. Tait.	3 3
Civil Law	May 16, 9 o'clock	Prof. Muirhead,...	5 5*
Scots Law	May 16, 9 o'clock	Prof. Macpherson,	5 5*
History.....	May 16, 4 o'clock	Prof. Mackay	3 3
Medical Jurisprudence	May 1, 11 o'clock	Prof. MacLagan, ...	4 4
Botany.....	} May 1, 8 o'clock	Prof. Balfour,	4 4†
Practical Botany & Veg. Hist.—(<i>Mon., Tues., Wed., & Thur.</i>) Field Demonstra. on <i>Sat.</i>	} May 6, 9 o'cl.	Prof. Balfour,	2 2
Botanical Demonstra. (<i>in Garden, Fri.</i>)	} May 10, 9 o'cl.	Prof. Balfour,	
Prac. Materia Medica (incl. Pharmacy).....	} May 1, 10 o'clk.	Prof. T. R. Fraser,	3 3
Chemistry, Adv. Cl. — (<i>Tues., Wed., & Thur.</i>)	} May 2, 1 o'clk.	{ Prof. Crum Brown,	2 2
Do. Practical	May 1, 10 & 11 o'cl.		3 3
Anatom. Demonstra...	May 6, 11 o'clock	{ Prof. Turner,	2 2
Practical Anatomy.....	May 1,		
Clinical Surgery— (<i>Mon. & Thurs.</i>)....	} May 2, 12 o'clk.	Prof. Annandale, Profs. Sanders, and T. R. Fraser,	3 3
Clinical Medicine— (<i>Tues. & Fri.</i>).....	} May 3, 12 to 2	Prof. Simpson on Dis. of Women. }	3 3
Obstetrical and Gynecol. Operations,	} May 3, 10 o'clk.	Prof. Simpson, ...	2 2
Natural History.....	May 1, 2 o'clock	{ Prof. Sir C. Wyville Thomson,	4 4
Practical Natural Hist. (<i>Mon., Wed., & Fri.</i>)	} May 1, 3 o'cl.		2 2
Practical Physiology, including Histology....	} May 1, 3 o'clk.	Prof. Rutherford,	3 3
Medical Psychology & Mental Diseases, with Prac. Instruction at Morning. Asylum— (<i>Mon. Wed. & Frid.</i>)	} May 6, 3 o'clk	{ Prof. Grainger Stewart,	3 3
Operative Surgery..... (<i>Mon. Tu. Th. and Fri.</i>)	} May 1, 4 o'clk.	Prof. Spence,	2 2
Practical Morbid Anatomy and Pathology	} May 1, 11 o'clk.	Prof. Sanders, ...	3 3
Royal Infirmary	Daily at Noon		

TUTORIAL CLASSES in Latin, Greek, Mathematics, and Natural Philosophy, will be opened for Students who have attended a Winter Course on these subjects. These Classes will meet five days in each week, commencing on 1st May, and closing on 19th July. Fee for each Class, £2, 2s., payable to the Class Tutor.

* Incl. of Wint. Sess.

† Besides Garden Fee of 5s.

WINTER SESSION, 1878-9.

Will be opened on Tuesday, 29th Oct. 1878.

FACULTY OF ARTS, OR LITERATURE & PHILOSOPHY.

Classes.	Days of Opening and Hours of Attendance.	Professors.	Class Fee.
First Humanity	Oct. 29, 12 & 20' cl.	Prof. Sellar	£3 3
Second Humanity ...	Oct. 29, 10 ,,	.....	3 3
First Greek	Oct. 29, 9 & 1 ,,	Prof. Blackie.....	3 3
Second Greek	Oct. 29, 11 ,,	.....	3 3
Third Greek.....	Oct. 29, 2 ,,	.....	3 3
First Mathematical ...	Oct. 29, 12 ,,	Prof. Kelland...	3 3
Second Mathematical.	Oct. 29, 10 ,,	.....	3 3
Third Mathematical...	Nov. 4, 9 ,,	.....	3 3
Logic & Metaphysics	Oct. 29, 1 ,,	Prof. C. Fraser...	3 3
Do. Advanced— } (History of Philos.) }	Nov. 4, 3 ,,	.....	2 2
Moral Philosophy.....	Oct. 29, 12 ,,	Prof. Calderwood	3 3
Do. Advanced— } Tues. & Thurs. }	Nov. 5, 3 ,,	.....	2 2
Natural Philosophy...	Oct. 29, 11 ,,	Prof. Tait,	3 3
Do. (Advanced Class)	Nov. 4, ,,	.....	3 3
Rhetoric & Eng. Lit.	Oct. 29, 4 ,,	Prof. Masson, ...	3 3
Practical Astronomy .	Dec. 2, 12 ,,	Prof. Smyth,.....	3 3
Agric. & Rural Econ.	Nov. 4, 3 ,,	Prof. Wilson, ...	4 4
Music.....	Nov. 4, 3 ,,	Prof. Sir H. Oakeley	3 3
Sanskrit and Compa- rative Philology ... }	Oct. 29, 3 to 5 ,,	Prof. Eggeling,...	4 4
Engineering	Nov. 4, 9 ,,	Prof. Jenkin,	4 4
Mechanical Drawing .	Nov. 5, 10 to 1 ,,	.....	3 3
Geology & Mineralogy	Nov. 4, 4 ,,	Prof. Geikie,.....	4 4
Com. and Pol. Econ., and Mercantile Law }	Nov. 4, 5 ,,	Prof. Hodgson,...	3 3
Theory, Hist., & Prac. of Education	Nov. 8, 3 ,,	Prof. Laurie,	3 3
History†.....			

FACULTY OF DIVINITY.

Divinity.....	Nov. 5, 11 o'cl.	Prof. Flint,	£3 3
Div. and Church Hist.	Nov. 5, 12 ,,	Prof. Taylor,	3 3
Biblical Criticism.....	Nov. 5, 2 ,,	Prof. Charteris,...	3 3
„ Advanced Cl., Tues. & Thurs. }	Nov. 5, 3 ,,	.....	3 3
Hebrew—Junior Cl. .	Nov. 5, 9 ,,	Prof. Liston,.....	3 3
„ & Arabic Ad- vanced Cl. }	Nov. 5, 10 ,,	.....	2 2
„ Elementary *	Nov. 20, 12 ,,	.....	1 1
Hindustani †.....	Nov. 6, 12 ,,	.. ..	2 2
Do.	Feb. 4, 12 ,,	.....	2 2

* Three months' Course, Tuesdays and Thursdays.

† Two Courses of three months each.

‡ Lectures given in Summer Session.

FACULTY OF LAW.

Classes.	Days of Opening and Hours of Attendance.	Professors.	Class Fee.
Civil Law.....	Oct. 29, 9 o'cl.	Prof. Muirhead,	£5 5*
Law of Scotland	Oct. 29, 4 ,,	Prof. Macpherson	5 5*
Public Law	Oct. 29, 3 ,,	Prof. Lorimer, ...	3 3
Conveyancing	Oct. 29, 9 ,,	Prof. Tytler,	4 4
History†		Prof. Mackay, ...	3 3
Med. Jurisprudence†		Prof. MacLagan,	4 4

FACULTY OF MEDICINE.

Materia Medica	Oct. 29, 2 o'cl.	Prof. T. R. Fraser,	£4 4
Chemistry	Oct. 29, 10 ,,	Prof. Crum Brown	4 4
Surgery	Oct. 29, 10 ,,	Prof. Spence, ...	4 4
Institutes of Medicine	Oct. 29, 11 ,,	Prof. Rutherford,	4 4
Midwifery & Diseases of Women & Childr.	} Oct. 29, 11 ,,	Prof. Simpson, ...	4 4
Clinical Surgery— Mon. & Thurs.			
Clinical Medicine— Tues. & Fri.	} Oct. 29, 12-2	Prof. Annandale,	4 4
		Prof. Maclagan, Sanders, G. Stewart, T. R. Fraser, and Simpson, on Dis. of Wom.,	4 4
Anatomy	Oct. 29, 1 ,,	Prof. Turner,	4 4
Practice of Physic ...	Oct. 29, 3 ,,	Prof. G. Stewart,	4 4
General Pathology ...	Oct. 29, 9 ,,	Prof. Sanders, ...	4 4
Practical Pathology...	Oct. 29,	.....	3 3
Anat. Demonstrations	Oct. 29, 4 ,,	Prof. Turner, ...	2 2
Practical Anatomy ...	Oct. 29,		
Practical Chemistry...	Jan. 6, 2 ,,	Prof. Crum Brown	3 3
Natural History—	} Nov. 4, 2 ,,	Professor Sir C. W. Thomson,	4 4
Mon., Wed., Frid., }			
Botany†		Prof. Balfour, ...	4 9
Med. Jurisprudence †			

ROYAL INFIRMARY.

Royal Infirmary at Noon, *Daily*.—Perpetual Ticket, £10; Annual Ticket, £5, 5s., Half Yearly Ticket, £3, 3s. Separate payments of two years entitle the Student to a Perpetual Ticket.

MATRICULATION FEES.

For the Academical Year, . . . £1 0 0

For the Summer Session only, . . . 0 10 0

All Students are required to Matriculate at the Registrar's Office, in the University, before entering any of the Classes. Those who Matriculate for the year do not require to Matriculate for the Summer Session.

* This includes the Summer Session. Second Year's Course, £3, 3s.

† Lectures given in Summer Session.

CLASS SESSIONS.

There are Two Sessions of the Classes in each year, viz. :—

I. The Summer Session, which opens in the beginning of May and ends with July.

II. The Winter Session, which opens in the beginning of November, and ends with April, during which the Classes in all the Four Faculties are assembled.

The order of attendance at the Classes in the FACULTY OF ARTS is referred to in the statement relative to the Curriculum prefixed to the Synopses of the Classes in that Faculty, and is given at length in the *Regulations for Graduation in Arts, &c.*

In the FACULTY OF MEDICINE, besides the *Regulations for Graduation*, there is a *Vidimus of the minimum cost of attendance, with the order of study recommended for Graduation* appended to the Synopses of the Classes in the Faculty of Medicine.

In the FACULTIES OF LAW AND DIVINITY, the order of study is given in the *Regulations for Graduation* in these Faculties, to be found at a subsequent part of the CALENDAR.

During Summer and Winter, the following means are afforded for Practical Instruction :—

DISSECTING ROOMS open daily under the superintendence of Professor Turner, assisted by D. J. Cunningham, M. B., and W. Watson Cheyne, M. B.

CHEMICAL LABORATORIES open daily, under the superintendence of the Professor, assisted by Dr A. P. Aitken, Dr Morrison, and Mr G. Carr Robinson.

PHYSIOLOGICAL LABORATORY open daily, under the superintendence of Professor Rutherford.

TUTORIAL CLASS OF CLINICAL MEDICINE, in the Wards of the Royal Infirmary, by the Clinical Tutor.

PRACTICAL PATHOLOGY AND MORBID ANATOMY, under the superintendence of Professor Sanders.

PHYSICAL LABORATORY, open daily from 10 to 3, under the superintendence of Professor Tait.

MATERIA MEDICA MUSEUM and LABORATORY, open daily, under the superintendence of Professor T. R. Fraser.

MEDICAL JURISPRUDENCE LABORATORY, open daily from 10 to 3, under the superintendence of Professor MacLagan.

THE NATURAL HISTORY LABORATORY is open daily, under the superintendence of Professor Sir Wyville Thomson.

OPERATIVE SURGERY, BANDAGING, AND SURGICAL APPLIANCES, under the superintendence of Professor Spence.

OBSTETRIC OPERATIONS, under the superintendence of Prof. Simpson.

MUSEUM OF THEORY AND PRACTICE OF MUSIC, under the superintendence of Prof. Sir Herbert Oakeley.

ROYAL BOTANIC GARDEN, HERBARIUM AND MUSEUM, open daily, during Summer, from 6 A.M. to 6 P.M.

NATURAL HISTORY MUSEUM, in the Museum of Science and Art, Chambers Street, is accessible to the Students attending the Natural History Class.

HOLIDAYS DURING WINTER SESSION.

In the Faculty of Arts, besides the Christmas Recess, there is a holiday on the second Monday of February.

In the Faculties of Law, Divinity, and Medicine, the Christmas Recess only.

University Officers.

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Date of Institution.	Chancellor.	Appointed.
1859.	Right Hon. JOHN INGLIS, D.C.L., LL.D.	1868.
	<i>Vice-Chancellor.</i>	
1859.	Sir ALEXANDER GRANT, Bart., LL.D.	1868.
	<i>Rector.</i>	
1859.	The Most Hon. The MARQUIS OF HARTINGTON, M.P.	1877.
	<i>Principal.</i>	
1582.	Sir ALEXANDER GRANT, Bart., LL.D.	1868.
	<i>Representative in Parliament.</i>	
1868.	Right Hon. LYON PLAYFAIR, C.B., LL.D.	1874.

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University Court.

President—THE RECTOR OF THE UNIVERSITY.

THE PRINCIPAL.....	<i>Ex officio.</i>	
HON. LORD CURRIEHILL.....	Assessor, re-nominated by Chancellor . . .	1875
THE LORD PROVOST OF EDINBURGH ..	<i>Ex officio.</i>	
JAMES MACKNIGHT, W.S.....	Assessor, re-elected by Town-Council. . .	1875
Right Hon. LORD YOUNG, LL.D.	Do. nominated by Rector.....	1877
WM. LINDSAY ALEXANDER, D.D.	Do. re-elected by General Council	1875
A. CAMPBELL FRASER, LL.D., Profes- } sor of Logic and Metaphysics, }	Do. elected by Senatus.....	1877

Secretary—JOHN CHRISTISON, W.S., 40 Moray Place.

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Curators.

Hon. Lord RUTHERFURD CLARK, LL.D.	} Re-elected by University Court	Feb. 1878
Sir ALEX. GRANT, Bart.,		Feb. 1877
ARCHD. CAMPBELL SWINTON, LL.D.	Elected by do.	Feb. 1878
Sir J. FALSHAW, Bart.,	Elected by Town Council	Feb. 1876
HON. LORD GIFFORD.....	Re-elected by do.	Feb. 1877
WILLIAM CHAMBERS, LL.D.	Re-elected by do.	Dec. 1876
JOHN BOYD,.....	Elected by do.	Dec. 1876

Secretary—R. BRUCE JOHNSTON, W.S., 18 Royal Circus.

Senatus Academicus,

President—THE PRINCIPAL OF THE UNIVERSITY.

FACULTY OF ARTS.

Dean—ALEX. CAMPBELL FRASER, LL.D., Professor of Logic and Metaphysics.

Date of Institution.	Chairs.	Professors.	Appointed.	Patrons.
1583	Humanity	W. Y. Sellar, M.A.	1863	Lords of Session, Curators, Fac. of Advoc., Society of Writers to the Signet.*
1583	Mathematics	P. Kelland, M.A.	1838	Curators.
1583	Greek	J. S. Blackie	1852	Curators.
1583	Logic & Metaphysics	{ A. Campbell Fraser, } LL.D.	1856	Curators
1583	Moral Philosophy ..	{ Henry Calderwood, } LL.D.	1868	Curators.
1583	Natural Philosophy ..	P. G. Tait, M.A.	1860	Curators.
1760	Rhetoric and English Literature	David Masson, LL.D.	1865	Crown. [Curators.
1719	History	Æneas J. G. Mackay,	1874	Faculty of Advocates and
1786	Practical Astronomy ..	C. Piazzi Smyth	1845	Crown.
1790	Agriculture and rural Economy	{ John Wilson	1854	Lords of Session, Curators, and University Court. †
1839	Music ‡	{ Sir Herbert Oakeley, } M.A., Mus. Doc.	1865	University Court.
1862	Sanscrit and Comparative Philology §	Julius Eggeling, Ph.D.	1875	Crown.
1868	Engineering ¶	Fleeming Jenkin	1868	Crown
1871	Geology ¶	Archd. Geikie, LL.D.	1871	Crown.
1871	Comm. & Polit. Economy & Mer. Law**	W. B. Hodgson, LL.D.	1871	Curators and Merchant Co
1876	Theory, History, and Practice of Education.*** ..	{ Simon S. Laurie, M.A.	1876	Bell Trustees.

FACULTY OF DIVINITY.

Dean—A. H. CHARTERIS, D.D., Professor of Biblical Criticism.

1583	Divinity	Robert Flint, D.D.	1876	Curators.
1642	Hebrew	David Liston, M.A.	1848	Curators.
1694	Divinity and Ecclesiastical History	M. C. Taylor, D.D.	1877	Crown.
1846	Biblical Criticism and Biblical Antiquities	A. H. Charteris, D.D.	1868	Crown.

* The Judges of the Court of Session nominate two Delegates, the Curators two, the Faculty of Advocates one, and the Society of Writers to the Signet one. These six Delegates appoint the Professor, who receives his Commission from the Curators.

† The Professor is elected by nine Delegates, three chosen by the Judges of the Court of Session, three by the Curators, and three by the University Court.

‡ This Chair was endowed by General John Reid.

§ This Chair was endowed by John Muir, LL.D. (Edin.), D.C.L. (Oxon.), late of the Bengal Civil Service, and by a Parliamentary vote of £200.

¶ This Chair was endowed in 1868 by Sir David Paxter, and by an annual vote of Parliament of £200.

¶ This Chair was endowed in 1871 by a sum of £6000 mortified by Sir Roderick Impey Murchison, Bart., and by an annual vote by Parliament of £200.

** This Chair was endowed in 1871 by the Merchant Company of Edinburgh, and other Governors of George Watson's and Daniel Stewart's Hospitals, who have granted a salary of £450 as the endowment.

*** This Chair has been endowed by the Trustees of the late Dr A. Bell, who have granted a sum of £6000 for this purpose.

FACULTY OF LAW.

Dean—ÆNEAS J. G. MACKAY, Advocate, Professor of Constitutional Law.

Date of Institution.	Chairs.	Professors.	Appointed.	Patrons.
1707	Public Law.....	James Lorimer, M.A.	1862	Crown.
1710	Civil Law.....	James Muirhead.....	1862	Fac. of Adv., and Curators.*
1719	Constitutional Law & History.....	Æneas J. G. Mackay, } LL B.	1874	Do. do.
1722	Law of Scotland.....	Norman Macpherson, LL.D.	1865	Do. do.
1807	Med. Juris & Police..	D. MacLagan, M.D. ..	1862	Crown.
1825	Conveyancing†	J. Stuart Tytler, LL.D., W.S.	1866	Curators, Deputy - Keeper and Society of Writers to the Signet.‡

FACULTY OF MEDICINE.

Dean—WILLIAM TURNER, M.B., Professor of Anatomy.

1676	Botany	J. H. Balfour M.D. .	1845	Curators.
1685	Institutes of Medicine	Wm. Rutherford, M.D.	1874	Curators.
1685	Practice of Physic....	{ T. Grainger Stewart, } M.D.,	1876	Curators
1705	Anatomy.....	Wm. Turner, M.B.	1867	Curators.
1713	Chemistry and Chemical Pharmacy.....	A. Crum Brown, M.D.	1869	Curators
1726	Midwifery & Diseases of Women & Child.	Alex. R. Simpson, M.D.	1870	Curators.
	Clinical Gynecology	{ Alex. R. Simpson, } M.D.	1870	
1741	Clinical Medicine ..	{ D. MacLagan, M.D. .. } W. Sanders, M.D. } T. Grainger Stewart, } M.D.,	1862 1869 1876	
1767	Natural History	Sir Wyville T. C. Thomson, LL.D.	1870	Crown.
1768	Materia Medica.....	{ Thomas R. Fraser, } M.D.	1877	Curators.
1803	Clinical Surgery.....	Thos. Annandale, M.D.	1877	Crown.
1807	Med. Jurisp. & Police.	D. MacLagan, M.D. ..	1862	Crown.
1831	Surgery	James Spence.....	1864	Curators
1831	General Pathology ..	W. R. Sanders, M.D.	1869	Curators.

Secretary of the Senatus Academicus—Professor WILSON.

ASSISTANTS TO PROFESSORS.

IN THE FACULTY OF ARTS.

Humanity	G. Strathairn, M.A.
Greek	George B. Gardiner, M.A.
Mathematics.....	R. K. Galloway, M.A.
Logic and Metaphysics,	W. R. Sorley, M.A.
Moral Philosophy,	Thomas Shaw, M.A., LL.B.
Natural Philosophy	P. R. Scott Lang, M.A., B.Sc.
Rhetoric and English Literature	Thomas Gilray, M.A.
Engineering.....	James G. Fairweather, J. A. Ewing.

* For this Chair, as also for the Chairs of Scots Law and of Constitutional Law and History, the Faculty of Advocates send to the Curators a list of two, of whom the Curators must choose one.

† Endowed by the Society of Writers to the Signet.

‡ The Election is by—(1) Two Delegates from the Curators; (2) Two from the Society of Writers to the Signet; and (3) The Deputy-Keeper of the Signet.

IN THE FACULTY OF LAW.

Scots Law	A. W. Myles, and W. G. Fraser.
Conveyancing	Geo. Law, and N. B. Constable.

IN THE FACULTY OF MEDICINE.

Clinical Medicine Tutor	J. Murdoch Brown, M.B., C.M.
Anatomy	D. J. Cunningham, M.D., John Brown, M.D.
Chemistry	{ A. P. Aitken, D.Sc., R. M. Morrison, D.Sc., G. Carr Robinson, and Lewis Johnston.
Institutes of Medicine	De Burgh Birch, M.B.
Materia Medica	Graham Steell, M.D.
Medical Jurisprudence	James O. Affleck, M.D.
Midwifery	David Berry Hart, M.B., C.M.
Botany	John Sadler.
Surgery	William Taylor, M.D.
Pathology	R. J. Blair Cunynghame, M.D., D. J. Hamilton.
Practice of Physic	James Ritchie, M.B.
Natural History	I. B. Balfour, D.Sc., and Geo. Leslie.
Clinical Medicine	J. M. Chapman, M.B., and Walter Strang, M.B.
Clinical Surgery Tutor	J. M. Cotterill, M.B., C.M.



University Examiners for Degrees.*

IN THE FACULTY OF ARTS.

The Professors of Humanity, Mathematics, Greek, Logic and Metaphysics, Moral Philosophy, Natural Philosophy, and Rhetoric and English Literature.	
JAMES BLAICKIE, <i>Examiner in Mathematics</i> . (Appointed 8th July 1875 for 3 years.)	
HUGH WILSON, M.A., <i>Examiner in Classical Literature</i> . (Appointed 6th July 1876 for 3 years.)	
Rev. WM. CUNNINGHAM, M.A., D.Sc., <i>Examiner in Mental Philosophy</i> . (Appointed 9th July 1877 for 3 years.)	

IN FACULTY OF DIVINITY, FOR DEGREE OF BACHELOR OF DIVINITY.

The Professors of the Faculty of Theology.

DAVID LAIRD ADAMS, B.D.,	{	Appointed 22d Jan. 1877 for 3 years.
THOMAS ADAMSON, B.D.,		

IN THE FACULTY OF LAW, FOR DEGREE OF BACHELOR OF LAWS.

The Professors of the Faculty of Law.

JOHN KIRKPATRICK, LL.B.,	{	Appointed 21st Jan. 1878 for 3 years.
J. M. LEES, LL.B.		

IN THE FACULTY OF MEDICINE.

The Professors of the Faculty of Medicine.

	Appointed, subject to annual re-election	
HUGH CLEGHORN, M.D., Botany	25th Jan. 1875	{ For 4 years.
DAVID FERRIER, M.D., Medical Jurisprudence	Do.	
DYCE DUCKWORTH, M.D., Practice of Physic	Do.	{ For 5 years.
WILLIAM M'INTOSH, M.D., Natural History	Do.	
JOSEPH F. PAYNE, M.B., B.Sc., Pathology	Do.	{ For 6 years.

All Non-professorial Examiners are appointed by the University Court.

	Appointed, subject to annual re-appointment	
JAMES DUNSMURE, M.D., Surgery	25th Jan. 1875	} For 7 years.
D. R. HALDANE, M.D., Clinical Medicine	Do.	
ARTHUR GAMGEE, M.D., Institutes of Medicine ..	Do.	
W. DITTMAR, Ph.D., Chemistry	8th Oct. 1877	} For 5 years.
ALEXANDER KEILLER, M.D., Midwifery	21st Jan. 1878	
THOMAS KEITH, F.R.C.S.E., Clinical Surgery,...	Do.	
T. LAUDER BRUNTON, M.D., Materia Medica,.....	Do.	
JOHN CHIENE, F.R.C.S.E., Anatomy	Do.	

FOR DEGREES IN PUBLIC HEALTH.

Professor CRUM BROWN, Chemistry, appointed 19th March 1875.	
Professor FLEEMING JENKIN, Physics, Engineering, Do.	
Professor MACLAGAN, Sanitary Law, Do.	
Professor MACLAGAN, Medicine and Pract. Sanitation, Do.	
Professor SANDERS, Do.	
Professor GRAINGER STEWART, Do.	16th April 1877.

FOR DEGREES IN ENGINEERING.

THOMAS STEVENSON, C.E., F.R.S.E., appointed 16th April 1877 for 3 years.

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University Librarian.

JOHN SMALL, M.A.

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Keepers of Museums.


<i>Museum of Natural History</i> —Professor Sir WYVILLE THOMSON.	
<i>Anatomical Museum</i> —Professor TURNER.	<i>Assistant</i> —A. B. STIRLING.
<i>Botanical Museum and Botanic Garden</i> —Professor BALFOUR.	

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<i>Factor of the University</i> —JOHN COOK, W.S.	
<i>Clerk of the University, and Secretary and Registrar</i> of General Council,.....	} —THOMAS GILBERT
<i>Assistant Registrars</i> —DAVID LISTER SHAND, W.S.; J. SMALL, M.A.	
<i>Janitor</i> —JOHN CHAPMAN.	

University of Edinburgh.

CHARTER.

HE University of Edinburgh was founded in 1582, by a Royal Charter granted by James VI. The Charter contemplates a University on a wide basis, with the conditions necessary for liberal study, and arrangements suited to the progressive state of modern science. In 1621, an Act was passed by the Scottish Parliament, which ratified to the University, in ample form, all the rights, immunities, and privileges enjoyed by other Universities in the kingdom. This ratification was renewed in the Treaty of Union between England and Scotland, and in the Act of Security. The privileges and efficiency of the University have been augmented by the Universities (Scotland) Act (1858), making provision for the better government and discipline of the Universities of Scotland, and for improving and regulating the course of study therein.

The University is a Corporation, consisting of a Chancellor, Rector, Principal, Professors, Registered Graduates and Alumni, and Matriculated Students; and including in its government the University Court, the Senatus Academicus, and the General Council.

CHANCELLOR.

The Chancellor is elected for life by the General Council. He is the head of the University. Changes in its internal arrangements, proposed by the University Court, must receive his sanction. It is through him, or his deputy the Vice-Chancellor, that Degrees are conferred. The Chancellor is President of the General Council.

Chancellors.—Right Hon. LORD BROUGHAM, elected 1859, died 1868.

Right Hon. JOHN INGLIS, Lord President of the Court of Session, elected 1868.

VICE-CHANCELLOR.

The Vice-Chancellor is nominated by the Chancellor. He may, in the absence of the Chancellor, discharge the duties of his office in so far as regards conferring of Degrees, but in no other respects. In his absence Degrees are conferred by the senior member of Senatus present.

Upon the Vice-Chancellor is imposed the duty of acting as Returning Officer at Parliamentary Elections. If there be no Vice-Chancellor at the time of an Election, the University Court may appoint one, but only to act as Returning Officer.

Vice-Chancellors.—Sir D. BREWSTER, elected 1860, died 1868.

Sir ALEXANDER GRANT, Bart., elected 1868.

RECTOR.

The Rector is elected by the Matriculated Students on the second Saturday after the commencement of the Winter Session. The term of office is three years. The next election takes place in November 1880. The Rector is President of the University Court. The appointments have been—

Right Hon. WILLIAM GLADSTONE, 1859, re-elected 1862.

THOMAS CARLYLE, 1865.

Right Hon. LORD MONCREIFF, 1868.

Sir WILLIAM STIRLING-MAXWELL, Bart., 1871.

Right Hon. The EARL OF DERBY, 1874.

The Most Hon. The MARQUIS OF HARTINGTON, M.P., 1877.

REPRESENTATIVE IN PARLIAMENT.

In accordance with Clauses 27 to 41 of the "Representation of the People (Scotland) Act," 31st and 32d Vict., cap. 48, the Chancellors, Members of the University Court, Professors, and Members of the General Councils of the Universities of Edinburgh and St Andrews, are entitled to elect a Member to serve in Parliament for these Universities.

The Writ for the first election was issued in November 1868, when Dr Lyon Playfair, C.B., and Archibald Campbell Swinton of Kimmerghame, came forward as Candidates. After a poll extending from 30th November to 4th December inclusive, in which 1753 members voted for Dr Playfair in Edinburgh, and 569 in St Andrews; and 1510 for Mr Campbell Swinton in

Edinburgh, and 557 in St Andrews, Dr Playfair had a majority of 255 votes, and was declared to be duly elected. On his appointment of Postmaster-General in 1873, Dr Playfair was re-elected without opposition ; and on the dissolution of Parliament in 1874, Dr Playfair was again re-elected without opposition.

On the 30th September 1868, the day on which the Register for the year 1869 closed, the Parliamentary constituency was as follows :—

Edinburgh.....	3652
St Andrews.....	1228

Total in 1868.....4880

In 1878 :—

Edinburgh.....	4025
St Andrews.....	1558

Total in 1878..... 5583

The Right Hon. LYON PLAYFAIR, C.B., re-elected 1874.

UNIVERSITY COURT.

The University Court has the following powers :—

1. To review all decisions of the *Senatus Academicus*, and to be a Court of Appeal from the *Senatus* in every case, except as otherwise provided in the *Universities' Act* :
2. To effect improvements in the internal arrangements of the University, after due communication with the *Senatus Academicus*, and with the sanction of the Chancellor ; provided that all such proposed improvements shall be submitted to the general Council for their consideration :
3. To require due attention on the part of the Professors to the Regulations as to the mode of teaching and other duties imposed on the Professors :
4. To fix and regulate, from time to time, the Fees in the several Classes :
5. Upon sufficient cause shewn, and after due investigation, to censure any member of the *Senatus Academicus*, or to suspend him from his office, and from the emoluments thereof, in whole or in part, for any period not exceeding one year, or to require him to retire from his office on a retiring allowance, or to deprive him of his office, and during the Suspension of any Professor, to make due provision for the teaching of his class : Provided always that no such sentence of censure, suspension, or deprivation, or requisition on a Professor to retire from office, shall have any effect until it has been approved by Her Majesty in Council :
6. To inquire into and control the administration by the *Senatus Academicus*, of the revenue, expenditure, and all the pecuniary concerns of the University, including Funds mortified for Bursaries and other purposes,

Any of the Rules, Statutes, or Ordinances enacted by the Universities' Commissioners may be altered or revoked by the University Court, but only with the consent, expressed in writing, of the Chancellor, and with the approval of Her Majesty in Council.

The University Court holds the patronage of the Chair of Music, and a share in that of the Chair of Agriculture. It appoints the non-Professorial Examiners for Degrees in Arts, Science (Department of Engineering and Public Health), Divinity, Law, and Medicine. The appointments of Assistants to Professors, provided for by Ordinance of the Universities' Commissioners, are subject to its approval.

The Court consists of the following members, viz. :—1. The Rector. 2. The Principal. 3. An Assessor appointed by the Chancellor. 4. The Lord Provost of Edinburgh for the time being. 5. An Assessor elected by the Lord Provost, Magistrates, and Town Council, of Edinburgh. 6. An Assessor appointed by the Rector. 7. An Assessor elected by the General Council of the University. 8. An Assessor elected by the Senatus Academicus. No Principal or Professor of any University is eligible to the office of Rector or Assessor, except in the case of the Assessor elected by the Senatus Academicus. The Rector and his Assessor continue in office for three years, and the other Assessors for four years. Five members of the Court constitute a quorum. The Rector, who is the ordinary President, has a deliberative and a casting vote. In his absence, the Member of the Court present who is first mentioned in the enumeration of its Members in the Universities' Act presides, with a deliberative vote only; and in the event of an equality of votes, the consideration of the question must be adjourned to a day of which due notice must be given to the Rector; and if the Rector does not then attend, the Member presiding at such subsequent meeting has both a deliberative and a casting vote.

Stated Meetings of the Court are held upon the first Monday after the 19th of January (for hearing Registration appeals and appointment of Examiners in Medicine*) and on the second Mon-

* Applications for the additional Examinerships must be made to the Secretary of the University Court one week before the day of appointment.

days of April, July (when Examiners in Arts are appointed) and October (when Assistant-Registrars are appointed, and the appointments of Class-Assistants submitted for approval).

An abstract of the proceedings of the Court is given at a subsequent part of the CALENDAR.

The Assessors appointed by the Chancellors, Town Council, Rectors, General Council, and Senatus Academicus, have been as follow :—

Chancellors' Assessors—

Sir JOHN MELVILLE, 1859.
ALEXANDER WOOD, M.D., 1860.
E. S. GORDON, Q.C., 1868.
Hon. LORD CURRIEHILL, 1871, 1875.

Town Council's Assessors—

R. S. GRIEVE, 1859.
JAMES MACKNIGHT, W.S., 1863, 1867, 1871, 1875.

Rectors' Assessors—

JOHN BROWN, M.D., 1859, 1862.
DAVID LAING, LL.D., 1865.
ALEXANDER NICOLSON, M.A., 1868.
HENRY HILL LANCASTER, 1871.
A. CAMPBELL SWINTON, LL.D., 1871, 1874.
Right Hon. LORD YOUNG, 1877.

General Council's Assessors—

EDWARD F. MAITLAND, LL.D., 1859.
JOHN MUIR, D.C.L., LL.D., 1863.
KENNETH M. PHIN, D.D., 1867.
WILLIAM LINDSAY ALEXANDER, D.D., 1871, 1875.

Senatus Academicus' Assessor—

Sir ROBERT CHRISTISON, Bart., 1859, 1863, 1867,
1871, 1875.
A. CAMPBELL FRASER, LL.D., 1877.

CURATORS.

By the Universities (Scotland) Act (1858), the patronage of the seventeen Chairs, previously in the gift of the Town Council, was transferred to seven Curators—three nominated by the University Court, and four by the Town Council. Besides these seventeen Chairs, the Curators have also a share in the patronage of those of Humanity, Agriculture, Civil Law, Law of Scot-

land, and Conveyancing, which was formerly possessed by the Town Council. The Curators hold office for three years. The appointments of Curators have been as follow :—

Elected by Town Council—

ROBERT JOHNSTON, W.S., 1859.

ANDREW FYFE, S.S.C., 1859.

DAVID PEAT, 1859.

JOHN MOOD, 1859.

Right Hon. CHARLES LAWSON, Lord Provost, 1862.

ADAM BLACK, 1862.

Right Hon. Sir WM. GIBSON-CRAIG, Bart., 1862.

Right Hon. WILLIAM CHAMBERS, Lord Provost, 1865.

ALEXANDER BRYSON, 1865.

GEORGE E. RUSSELL, 1867.

WILLIAM SKINNER, 1868.

WILLIAM CHAMBERS, LL.D., 1870.

Right Hon. W. LAW, Lord Provost, 1870.

Hon. LORD GIFFORD, 1870.

Right Hon. JAMES COWAN, Lord Provost, 1873.

WILLIAM CHAMBERS, LL.D., 1873, 1876.

JOHN TAWSE, W.S., 1873.

Hon. LORD GIFFORD, 1874, 1877.

Right Hon. Sir J. FALSHAW, Bart., 1876.

JOHN BOYD, 1876.

Elected by University Court—

Right Hon. W. E. GLADSTONE, 1859, 1863.

EDWARD F. MAITLAND, LL.D., 1859.

DAVID MURE, M.P., 1859, 1863.

Sir DAVID BREWSTER, K.H., 1863, 1866.

Right Hon. JOHN INGLIS, Lord Justice-Clerk, 1866.

Right Hon. Sir WM. GIBSON-CRAIG, Bart., 1866, 1869.

D. MILNE HOME, LL.D., 1868, 1871.

Hon. LORD NEAVES, LL.D., 1869, 1872.

Sir WILLIAM STIRLING MAXWELL, Bart., K.T., 1872, 1875.

Right Hon. Sir JOHN M'NEILL, 1874.

Hon. LORD RUTHERFURD CLARK, LL.D., 1875, 1878.

Sir ALEXANDER GRANT, Bart., 1877.

ARCHD. CAMPBELL SWINTON, LL.D., 1878.

REPRESENTATIVE IN GENERAL MEDICAL COUNCIL.

In accordance with clause 4 of the Medical Act of 1858, the Universities of Edinburgh and Aberdeen are entitled to elect a

Member of the "General Council of Medical Education and Registration of the United Kingdom."

The first election took place in 1858, when Professor James Syme was elected for five years. He was re-elected for a like period in 1863; and in 1868, Dr Macrobin, Professor of the Practice of Medicine in Aberdeen, was elected. Professor W. Turner was elected in 1873 to hold office for five years.

JAMES SYME, 1858, re-elected 1863.

JOHN MACROBIN, M.D., 1868.

WILLIAM TURNER, M.B., 1873.

PRINCIPAL.

The Principal is appointed by the Curators. The office is held for life. The Principal is the resident Head of the College, and President of the Senatus Academicus. His official residence is No. 21 Lansdowne Crescent.

PRINCIPALS ELECTED SINCE 1582.

1585. Robert Rollock, <i>First Regent</i>	1703. William Carstares'
1599. Henry Charteris	1716. William Wishart
1620. Patrick Sands	1730. William Hamilton
1622. Robert Boyd	1732. James Smith
1623. John Adamson	1736. William Wishart, <i>secundus</i>
1652. William Colvill	1754. John Gowdie
1653. Robert Leighton	1762. William Robertson
1662. William Colvill	1793. George Husband Baird
1675. Andrew Cant	1840. John Lee
1685. Alexander Monro	1859. Sir David Brewster
1690. Gilbert Rule	1868. Sir ALEX. GRANT, Bart.

SENATUS ACADEMICUS OR SENATE.

The Principal and whole Professors constitute the Senatus Academicus or Senate. This body is entrusted with the superintendence and regulation of the teaching and discipline of the University, and with the administration of its revenues and property, including the Library, Museums, and University Buildings. Degrees in Arts, Medicine, Law, and Theology are conferred, on the recommendation of the Senatus, by the Chancellor or Vice-Chancellor. The Principal is President, with a deliberative and

also a casting vote. In the absence of the Principal, the Senior Professor present acts as Chairman, also with a double vote. The Ordinary Meetings of Senatus are held on the last Monday of October, the last Saturday of November, January, February, and March; on the Saturday immediately preceding the Christmas holidays; on the last Friday of May, June, and July; on the 1st August, not being a Sunday (for conferring Degrees in Medicine); and in April (for conferring Degrees in Arts, Law, and Theology), on a day fixed at the Meeting in March. Extraordinary Meetings may be summoned by the Principal or by three Professors. One-third of the Senatus constitutes a quorum.

The business of the Senatus is conducted by the Secretary, who prepares the Minutes, summons the Meetings, intimates business assigned to the Principal, to the Dean of any Faculty, or to the Convener of any Committee, and draws up the return for the Widows' Fund. The Secretary also administers the *Sponsio Academica* to Graduates.

FACULTIES AND DEANS.

The Chairs of the University are comprehended in the four Faculties. The affairs of each Faculty are presided over by a Dean, who is elected from among Professors of the Faculty. Persons recommended for Degrees, in the different Faculties, are presented to the Senatus by the Dean, to whom all communications regarding the Classes in the Curriculum or Graduation should be addressed. The Deans of each Faculty are mentioned at pp. 26, 27.

FACULTY OF ARTS.

The Faculty of Arts, the most ancient in the University, comprehends the Seven Chairs of Humanity (Latin), Mathematics, Greek, Logic and Metaphysics, Moral Philosophy, Natural Philosophy, and Rhetoric and English Literature. Attendance on these Classes is required for the Degree of Master of Arts.

The Faculty of Arts also embraces the Professorships of History (in conjunction with the Faculty of Law), Practical

Astronomy, Agriculture, Music, Sanskrit, Civil Engineering, Geology, Political Economy, and the Theory of Teaching.

PROFESSORS AND REGENTS IN THE FACULTY OF ARTS SINCE 1582.

Professors of Humanity since 1597.

- 1597. John Ray
- 1606. Blase Colt
- 1611. Oliver Colt
- 1611. Robert Burnet
- Andrew Stevenson
- 1623. Samuel Rutherford
- 1626. Thomas Crawford
- 1630. John Armour
- 1633. Alexander Gibson
- 1636. James Wiseman
- 1638. Robert Young
- 1644. James Pillans
- 1653. John Wishart
- 1656. William Forbes
- 1656. James M'Gowan
- 1658. Hugh Smith
- 1663. William Cumming
- 1665. Andrew Ross
- 1665. Thomas Bell
- 1676. Gilbert MacMurdo
- 1679. Alexander Cunningham
- 1689. John Drummond
- 1690. Laurence Dundas
- 1728. Adam Watt
- 1734. John Kerr
- 1741. George Stuart
- 1775. John Hill
- 1806. Alexander Christison
- 1820. James Pillans
- 1863. W. Y. SELLAR

Profs. of Mathematics since 1674.

- 1674. James Gregory
- 1675. John Young
- 1683. David Gregory
- 1692. James Gregory
- 1725. Colin M'Laurin
- 1747. Matthew Stewart
- 1775. Dugald Stewart
- 1785. Adam Ferguson
- 1785. John Playfair

- 1805. John Leslie
- 1819. William Wallace
- 1838. PHILIP KELLAND.

Regents since 1583.

[The Chairs of Greek, Logic, and Metaphysics, Moral Philosophy, and Natural Philosophy were occupied by the Regents, in rotation, from 1583 until 1708.]

- 1583. Robt. Rollock, *first Regent*
- 1583. Duncan Nairn
- 1585. Charles Lumisdail
- 1586. Adam Colt
- 1586. Alexander Scrimgeour
- 1587. Philip Heslop
- 1588. Charles FermeorFairholm
- 1589. Henry Charteris
- 1589. Patrick Sands
- 1594. George Robertson
- 1597. John Rae
- 1597. William Craig
- 1597. John Adamson
- 1598. James Knox
- 1598. Robert Scott
- 1601. Andrew Young
- 1603. James Reid
- 1604. David Munro
- 1606. Blase Colt
- 1607. James Fairley
- 1608. William King
- 1611. Andrew Stevenson
- 1617. Robert Burnet
- 1625. Samuel Rutherford
- 1625. Robert Ranken
- 1626. Thomas Crawford
- 1626. John Brown
- 1630. John Armour
- 1631. Alexander Hepburn
- 1633. Alexander Gibson
- 1636. James Wyseman
- 1638. James Wright
- 1638. Robert Young
- 1639. Duncan Forrester

- 1644. William Tweedie
- 1644. James Pillans
- 1647. Andrew Suttie
- 1653. John Wishart
- 1654. William Forbes
- 1656. James M'Gown
- 1658. Hugh Smith
- 1663. William Cumming
- 1665. Andrew Ross
- 1665. George Sinclair
- 1665. Thomas Bell
- 1666. John Wood
- 1667. William Paterson
- 1679. Gilbert M'Murdoch
- 1679. Andrew Massie
- 1680. Alexander Cockburn
- 1682. Robert Lidderdail
- 1684. Herbert Kennedy
- 1686. Thomas Burnet
- 1689. Alexander Cunningham
- 1689. John Drummond
- 1690. William Law
- 1690. Lawrence Dundas
- 1695. John Row
- 1695. William Scott
- 1701. Charles Areskine
- 1703. Robert Stewart
- 1707. Colin Drummond

Professors of Greek since 1708.

- 1708. William Scott, *one of the Regents*
- 1729. William Scott, *secundus*
- 1730. Colin Drummond
- 1738. Robert Law
- 1741. Robert Hunter
- 1772. Andrew Dalziel
- 1805. George Dunbar
- 1852. JOHN STUART BLACKIE.

Professors of Logic and Metaphysics since 1708.

- 1708. Colin Drummond, *one of the Regents*
- 1730. John Stevenson
- 1774. John Bruce

- 1786. James Finlayson
- 1808. David Ritchie
- 1836. Sir Wm. Hamilton, Bart.
- 1856. A. C. FRASER.

Professors of Moral Philosophy since 1708.

- 1708. William Law *one of the Regents*
- 1729. William Scott
- 1734. John Pringle
- 1745. William Cleghorn
- 1754. James Balfour
- 1764. Adam Ferguson
- 1785. Dugald Stewart
- 1810. Thomas Brown
- 1820. John Wilson
- 1853. P. C. M'Dougall
- 1868. HENRY CALDERWOOD.

Professors of Natural Philosophy since 1708.

- 1708. Robert Stewart, *one of the Regents*
- 1742. John Stewart
- 1759. Adam Ferguson
- 1764. James Russell
- 1774. John Robison
- 1805. John Playfair
- 1819. Sir John Leslie
- 1833. James David Forbes
- 1860. PETER GUTHRIE TAIT

Professors of Rhetoric and English Literature since 1762.

- 1762. Hugh Blair
- 1784. William Greenfield
- 1801. Andrew Brown
- 1835. George Moir
- 1840. William Spalding
- 1845. W. E. Aytoun
- 1865. DAVID MASSON.

Professors of History since 1719
(See Faculty of Law.)

*Professors of Practical Astronomy
since 1786.*

1786. Robert Blair
1834. Thomas Henderson
1846. CHARLES PIAZZI SMYTH

Professors of Agriculture since 1790.

1790. Andrew Coventry
1831. David Low
1854. JOHN WILSON

*Professors of the Theory of Music
since 1839.*

1839. John Thomson.
1841. Sir Henry Rowley Bishop
1844. Henry Hugh Pearson.
1845. John Donaldson
1865. Sir HERBERT OAKELEY

Professor of Technology.

1855. George Wilson
[Chair abolished 1859.]

Professor of Sanskrit since 1862.

1862. Theodor Aufrecht
1875. JULIUS EGGELING.

Professor of Engineering.

1868. FLEEMING JENKIN

Professor of Geology.

1871. ARCHIBALD GEIKIE

*Professor of Commercial and Polit.
Economy and Mercantile Law.*

1871. W. B. HODGSON

Professor of Education.

1876. SIMON S. LAURIE.

FACULTY OF DIVINITY.

This Faculty, the second in chronological order, comprehends the four Chairs of Divinity, Hebrew and Oriental Languages, Divinity and Ecclesiastical History, and Biblical Criticism and Antiquities.

PROFESSORS IN THE FACULTY OF DIVINITY SINCE 1620.

Professors of Divinity since 1620.

1620. Andrew Ramsay
1627. Henry Charteris
1629. James Fairly
1630. John Sharpe
1648. Alexander Colvill
1649. Samuel Rutherford
1650. David Dickson
1662. Patrick Scougall
1664. William Keith
1675. Laurence Charteris
1682. John Menzies
1683. John Strachan
1690. George Campbell
1701. George Meldrum
1709. William Hamilton
1732. James Smith
1733. John Gowdie
1754. Robert Hamilton
1779. Andrew Hunter

1809. William Ritchie
1828. Thomas Chalmers
1844. John Lee
1859. Thomas J. Crawford.
1876. ROBERT FLINT.

Professors of Hebrew since 1642.

1642. Julius Conradus Otto
1656. Alexander Dickson
1679. Alexander Amedeus
1681. Alexander Douglas
1692. Patrick Sinclair
1694. Alexander Rule
1702. John Goodall
1719. James Crawford
1732. William Dawson
1751. James Robertson
1792. George Husband Baird
1793. William Moodie.
1812. Alexander Murray

1813. Alexander Brunton

1848. DAVID LISTON

Professors of Divinity and Church History since 1695.

1702. John Cumming

1715. William Dunlop

1726. Matthew Crawford

1737. Patrick Cumming

1762. Robert Cumming.

1788. Thomas Hardie

1799. Hugh Meiklejohn

1831. David Welsh

1844. James Robertson

1861. William Stevenson

1872. Robert Wallace

1876. MALCOLM C. TAYLOR.

Professors of Biblical Criticism and Biblical Antiquities since 1846.

1847. Robert Lee

1868. A. H. CHARTERIS

FACULTY OF LAW.

This Faculty comprehends the six Chairs of Public Law, Civil or Roman Law, Constitutional Law and History (in conjunction with the Faculty of Arts), Law of Scotland, Medical Jurisprudence (in conjunction with the Faculty of Medicine), and Conveyancing. Attendance on these classes is required for the Degree of Bachelor of Laws.

PROFESSORS IN THE FACULTY OF LAW SINCE 1707.

Professors of Public Law since 1707.

1707. Charles Areskine

1734. William Kirkpatrick

1735. George Abercrombie

1759. Robert Bruce

1764. James Balfour

1779. Allan Maconochie

1796. Robert Hamilton

1832. * * *

1862. JAMES LORIMER

Professors of Civil Law since 1710.

1710. James Craig

1732. Thomas Dundas

1745. Kenneth M'Kenzie

1755. Robert Dick

1792. John Wilde

1800. Alexander Irving

1827. Douglas Cheape

1842. A Campbell Swinton

1862. JAMES MUIRHEAD.

Professors of History since 1719.

1719. Charles Mackie

1753. John Gordon

1754. William Wallace

1755. John Pringle

1780. Alex. Fraser Tytler

1781. William Fraser Tytler

1821. Sir William Hamilton

1837. George Skene

1842. James Frederick Ferrier

1846. Cosmo Innes

1874. ÆNEAS J. G. MACKAY

Professors of the Law of Scotland since 1722.

1722. Alexander Bayne

1737. John Erskine

1765. William Wallace

1786. David Hume

1822. George Joseph Bell

1843. John Schank More

1861. George Ross.
 1864. George Moir.
 1865. NORMAN MACPHERSON

*Professors of Medical Jurisprudence
 since 1807.*

1807. Andrew Duncan, *secundus*
 1820. William Pulteney Alison
 1822. Robert Christison

1832. Thomas Stewart Traill
 1862. DOUGLAS MACLAGAN

*Professors of Conveyancing since
 1825.*

1825. Macvey Napier
 1847. Allan Menzies
 1856. A. Montgomerie Bell
 1866. JAMES STUART TYTLER

FACULTY OF MEDICINE.

The Faculty comprehends the twelve Chairs of Botany, Institutes of Medicine, Practice of Physic, Anatomy, Chemistry, Midwifery, Natural History, Materia Medica, Clinical Surgery, Medical Jurisprudence (in conjunction with the Faculty of Law), Surgery, and General Pathology. Some of these Chairs were instituted in the seventeenth century, but it does not appear that the Medical School and Faculty of the University was established sooner than the early part of last century.

PROFESSORS IN THE FACULTY OF MEDICINE SINCE 1676.

Professors of Botany since 1676.

1676. James Sutherland
 1706. Charles Preston
 1712. George Preston

Professors of Medicine and Botany.

1738. Charles Alston
 1761. John Hope
 1786. Daniel Rutherford
 1820. Robert Graham
 1845. JOHN HUTTON BALFOUR

Professors of Medicine in 1685.

- { Sir Robert Sibbald
 1685. { James Halket
 { Archibald Pitcairne

*Professors of Institutes of Medicine
 since 1724.*

1724. William Porterfield
 1726. { Andrew St Clair
 { John Rutherford

1747. Robert Whytt
 1766. William Cullen
 1776. James Gregory
 1789. Andrew Duncan
 1819. Andrew Duncan, *secundus*
 1821. William Pulteney Alison
 1842. Allen Thomson
 1848. John Hughes Bennett
 1874. WILLIAM RUTHERFORD

*Professors of Practice of Physic
 since 1724.*

1724. William Porterfield.
 1726. { Andrew St Clair
 { John Rutherford
 1747. Robert Whytt.
 1766. John Gregory
 1773. William Cullen
 1790. James Gregory
 1821. James Home
 1842. William Pulteney Alison
 1855. Thomas Laycock
 1876. T. GRAINGER STEWART.

Professors of Anatomy since 1705.

- 1705. Robert Elliot
- 1708. Adam Drummond
- 1716. John M'Gill
- 1720. Alexander Monro
- 1754. Alex. Monro, *secundus*
- 1798. Alexander Monro, *tertius*
- 1846. John Goodsir
- 1867. WILLIAM TURNER

*Professors of Chemistry and
Medicine since 1713.*

- 1713. James Crawford
- 1726. Andrew Plummer
- 1726. John Innes
- 1755. William Cullen
- 1766. Joseph Black
- 1795. Thomas Charles Hope

Professors of Chemistry.

- 1844. William Gregory
- 1858. Lyon Playfair
- 1869. ALEX. CRUM BROWN

Professors of Midwifery since 1726.

- 1726. Joseph Gibson
- 1739. Robert Smith
- 1756. Thomas Young
- 1780. Alexander Hamilton
- 1800. James Hamilton
- 1840. Sir J. Y. Simpson, Bart.
- 1870. ALEXANDER R. SIMPSON

*Professors of Natural History
since 1767.*

- 1770. Robert Ramsay
- 1779. John Walker
- 1804. Robert Jameson
- 1854. Edward Forbes

1855. George James Allman

1870. Sir WYV. T. C. THOMSON

*Professors of Materia Medica
since 1768.*

- 1768. Francis Home
- 1786. Daniel Rutherford
- 1798. James Home
- 1821. Andrew Duncan, *secundus*
- 1832. Sir Robt. Christison, Bart.
- 1877. THOMAS R. FRASER

*Professors of Clinical Surgery
since 1803.*

- 1803. James Russell
- 1833. James Syme
- 1869. Joseph Lister
- 1877. THOMAS ANNANDALE

*Professors of Military Surgery
since 1806.*

- 1806. John Thomson
- 1823. Sir George Ballingall
- [Chair abolished.]

*Professors of Medical Jurisprudence
since 1807.*

[See Faculty of Law.]

Professors of Surgery since 1777.

- 1777. Alex. Monro, *secundus*
- 1798. Alexander Monro, *tertius*
- 1831. John William Turner
- 1836. Sir Charles Bell
- 1842. James Miller
- 1864. JAMES SPENCE

*Professors of General Pathology
since 1831.*

- 1831. John Thomson
- 1842. William Henderson
- 1869. W. R. SANDERS

ASSISTANTS TO PROFESSORS.

In the Faculty of Arts there are Assistants to the Professors of Humanity, Greek, Mathematics, and Natural Philosophy, provided in accordance with the ordinances of the Scottish Universities Commissioners. Each of these receives an annual salary of £100. In the Faculty of Medicine there are assistants to the Professors of Anatomy, Chemistry, Materia Medica, and Medical Jurisprudence, also provided by these

ordinances, with salaries varying from £25 to £100. The Assistants in these various classes are appointed annually by their respective Professors, subject to the approval of the University Court. The Professors of Logic, Moral Philosophy, Rhetoric, Engineering, Scots Law, Conveyancing, Natural History, Institutes of Medicine, Practice of Physic, Surgery, Midwifery, Clinical Medicine and Pathology, have also Assistants provided by the Senatus. The Professor of Music has an allowance of £200 from the Reid Fund for Assistants and Class expenses.

GENERAL COUNCIL OF THE UNIVERSITY.

The General Council consists of the Chancellor, the Members of the University Court, the Professors all for the time being, all Masters of Arts of the University, all persons on whom the University has, after examination, conferred either of the degrees of Doctor of Medicine, Doctor of Science, Bachelor of Divinity, Bachelor of Laws, Bachelor of Medicine, or Bachelor of Science, or any other degree that may hereafter be instituted; and also all persons who shall establish that, previous to 2d August 1861, they had, as Matriculated Students, given regular attendance on the course of study in the University for four complete Sessions, or for three complete Sessions in this, and a fourth in another Scottish University—the attendance for at least two of such sessions having been on the course of study in the Faculty of Arts.

The fee for registration is £1, but each applicant who registered under the Universities (Scotland) Act, 1858, will be entitled to an abatement from such fee, equal to the sum that may already have been paid by him in name of entrance money and annual fees.

No person can be a member of Council until he has attained the age of twenty-one years complete.

The Register for the current year (a copy of which will be found in the *Appendix* to the CALENDAR) contains 4025 Members, and is conclusive of the rights of persons to be Members up to 1st January 1879. The Register for 1879 will, in addition to the present Members, contain the names of all persons who shall have their names entered in the Registration Book on or before 30th November 1878, and will in like manner be conclusive of the rights of persons to be Members for the year.

The Council meets twice a-year—viz., on the *first Tuesday after the fourteenth day of April*, and on the *last Friday in October*, at one o'clock, "to take into their consideration all questions affecting the well-being and prosperity of the University, and to make representations from time to time on such questions to the University Court, who shall consider the same, and return to the Council their deliverance thereon." All proposed improvements in the internal arrangements of the University "shall be submitted to the University Council for their consideration." "The Council may appoint a Committee or Committees at one meeting to arrange or prepare business for a future meeting, but it cannot delegate any of its functions to a Committee, or act by means of a Committee."

The Chancellor is by statute President of the Council; and in his absence, the Rector; whom failing, the Principal or Senior Professor present, with a deliberative and also a casting vote.

The General Council of this University, and the General Council of the University of St Andrews jointly, return a Member of Parliament. When a poll is demanded, Members may either Vote personally or by Voting Papers. The Vice-Chancellor of Edinburgh University is the Returning Officer.

The Chancellor and one of the Assessors in the University Court are elected by the Council. When a poll is demanded, the election is made by means of Voting Letters, issued by the Registrar to the Members, which must be returned to him within 21 days.

The Chancellor holds office for life, and the Assessor for four years from the date of Nomination.

The next appointment of an Assessor will take place at the meeting of the General Council in October 1879, and a list of those previously appointed will be found at p. 34.

Members of General Council are entitled to the use of the University Library on payment of an annual fee of 10s. 6d., or they may compound for such annual fee by a present payment of £5, 5s.

MATRICULATED STUDENTS.

Matriculated Students may be members of any of the four Faculties. They have the privilege of electing the Rector of the University. In case of an equality of votes, the Chancellor, or

failing him, the Principal, has the casting vote. Students also enjoy the right of admission to the University Library, and on certain days to the Museum of Natural History. Their names are preserved in the General Album, which is the legal register of attendance at the University. Students are subject to the ordinary discipline of the Professors, and of the *Senatus Academicus*.

University Matriculation consists in a Student entering his name in the General Roll of Students of the University, and in paying a fee of £1 for one year, commencing in November, or a fee of 10s. for a Summer Session, commencing in May. Matriculation is necessary before a Student can enter any of the Classes in the University, or any Extra-Academical Classes which are intended to qualify for graduation.

The following is the Declaration signed by students on matriculating—

QUOD FAUSTUM FELIXQUE SIT. A. D.—

Ego Academiae Edinburgenae Discipulus sincerè ac sanctè promitto quod et sygraphâ hac meâ in perpetuum testatum cupio, mihi ante omnia cordi ac curae futurum verae pietatis studium; me etiam in assuetis academici curriculi studiis sedulum fore, ut adolescentem bene institutum decet; et quamdiu in illo curriculo permansero praeceptoribus omnibus morigerum memet praestitutum, nec ullius dissidii aut tumultus clam palamve vel auctorem vel participem futurum, et per reliquam vitam Academiam ipsam grato et benevolo animo prosecuturum, idque omnibus officiis pro facultate mea et occasione data testaturum esse.

MATRICULATED STUDENTS IN SUMMER SESSION, 1877 :

I. Faculty of Arts	. . . . .	14
II. Faculty of Law	. . . . .	10
III. Faculty of Medicine	. . . . .	166
		<hr/> 190

MATRICULATED STUDENTS IN WINTER SESSION, 1877-78 :

I. Faculty of Arts	. . . . .	935
II. Faculty of Divinity	. . . . .	67
III. Faculty of Law	. . . . .	354
IV. Faculty of Medicine	. . . . .	942
		<hr/> 2350

Total number of Matriculated Students, 1877-78 2540

UNIVERSITY EXAMINERS.

FOR DEGREES.*

I. *Faculty of Arts*.—The Examiners for the Degree in Arts are the seven Professors whose classes are embraced in the Curriculum; and, in addition, three persons (Members of a Scottish University Council, but not Professors or Assistant Professors in any Scottish University) appointed (each for three years) by the University Court, in whose appointment regard must be had to their eminence respectively in Classical Literature, Mental Philosophy, and Mathematical Science. No Examiner can be re-appointed till he has ceased to hold office for a year. The Annual Salary of each of the three additional Examiners is £80, voted by Parliament. Candidates for Honours in Natural Science are examined by the Professors of Natural History, Chemistry, Botany, and Geology. The appointments of additional Examiners in the Faculty of Arts have been as follow :—

Classical Literature.

JAMES DONALDSON, M.A.	. . .	1861
JAMES CLYDE, M.A., LL.D.	. . .	1864
JOHN KERR, M.A.	. . .	1867
WILLIAM MILLAR NICOLSON, M.A.	. . .	1870
JOHN MARSHALL, M.A.	. . .	1873
HUGH WILSON, M.A.	. . .	1876

Mental Philosophy.

JOHN DOWNES, M.A.	. . .	1861
ALEXANDER NICOLSON, M.A.	. . .	1865
THOMAS M. LINDSAY, M.A.	. . .	1868
ALEXANDER NICOLSON, M.A.	. . .	1871
ROBERT ADAMSON, M.A.	. . .	1874
Rev. WILLIAM CUNNINGHAM, M.A., D. Sc.	. . .	1877

Mathematics.

BALFOUR STEWART, LL.D.	. . .	1861
Rev. HUGH MARTIN, M.A.	. . .	1866
WILLIAM LEES, M.A.	. . .	1869
ROBERT WALKER, M.A.	. . .	1872
JAMES BLAIKIE, M.A.,	. . .	1875

Engineering.

THOMAS STEVENSON, C.E.	. . .	1876
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II. *Faculty of Divinity*.—The Examiners for the Degree of Bachelor in Divinity are the four Professors of the Faculty, together with two Examiners appointed by the University Court

* For Regulations as to time of appointment and Substitutes for absent Examiners, see Appendix Nos. V. VI.

for the term of three years. The appointments of additional Examiners in the Faculty of Theology have been :—

HENRY COWAN, B.D.,	.	.	.	1871
WILLIAM HASTIE, B.D.,	.	.	.	1871
DAVID LAIRD ADAMS, B.D.,	.	.	1874,	1877
THOMAS NICOL, B.D.,	.	.	.	1874
THOMAS ADAMSON, B.D.,	.	.	.	1877

III. *Faculty of Law*.—The Examiners for the Degree of Bachelor of Laws (LL.B.) and B.L. are the six Professors of the Faculty, and two selected by the University Court from those who have graduated in Laws.

W. F. HUNTER, LL.B.,	.	.	.	1875
JOHN KIRKPATRICK, LL.B.,	.	.	1875,	1878
J. M'KIE LEES, LL.B.,	.	.	.	1878

IV. *Faculty of Medicine*.—The Examiners of Candidates for Degrees in Medicine are the Professors in the Faculty of Medicine, and, in addition, twelve persons appointed annually by the University Court, who receive £50 each, voted partly by Parliament. The Preliminary Examination of Candidates for Medical Degrees is conducted by the Examiners in Arts, with some of the Medical Examiners. The appointments of additional Examiners in the Faculty of Medicine have been as follow :—

JAMES BEGBIE, M.D.	.	.	.	1862
DOUGLAS MACLAGAN, M.D.	.	.	.	1862
WILLIAM ROBERTSON, M.D.	.	.	.	1862
BENJAMIN BELL, Surgeon	.	.	.	1863
WILLIAM SELLER, M.D.	.	.	.	1865
J. WARBURTON BEGBIE, M.D.	.	.	.	1869
WILLIAM DUMBRECK, M.D.	.	.	.	1870
JOHN CHIENE, M.D.	.	.	1875,	1878
ANGUS MACDONALD, M.D.	.	.	.	1875
JAMES DUNSMURE, M.D.	.	.	.	1875
HUGH CLEGHORN, M.D.	.	.	.	1875
DAVID FERRIER, M.D.	.	.	.	1875
JAMES DEWAR, .	.	.	.	1875
DYCE DUCKWORTH, M.D.	.	.	.	1875
WILLIAM M'INTOSH, M.D.	.	.	.	1875
JOSEPH F. PAYNE, M.B.	.	.	.	1875
THOMAS R. FRASER, M.D.	.	.	.	1875
D. R. HALDANE, M.D.	.	.	.	1875
ARTHUR GAMGEE	.	.	.	1875
W. DITTMAR, Ph.D.	.	.	.	1877
ALEXANDER KEILLER, M.D.	.	.	.	1878
THOMAS KEITH, M.D.	.	.	.	1878
T. LAUDER BRUNTON, M.D.	.	.	.	1878

University Library.

THE Library originated in a bequest, in 1580, by Mr Clement Little, Commissary, Edinburgh, a learned citizen, and brother of the Lord Provost, who left his library to "Edinburgh and the Kirk of God." This library, consisting of about 300 volumes, chiefly theological, was transferred by the Town Council, a few years afterwards, to the University. The University Library was afterwards largely augmented by donations from the Citizens of Edinburgh, and from the alumni of the University, and by the annual contributions of Students when they took the Degree of Master of Arts.

The celebrated Poet, Drummond of Hawthornden, bequeathed his library to the University; and the gift is valuable, both from the eminence of the donor's name, and from the rare specimens of our early literature with which the collection is enriched.

Among the donors may be specified, for the extent and value of their benefactions, Principal Adamson, Dr Robert Johnston, a physician in London; the Rev. James Nairne of Wemyss, in Fife; Dr John Stevenson, Professor of Logic and Metaphysics in the University; and Dr William Thomson, Professor of Anatomy in the University of Oxford. In 1872, the Library received a valuable addition by a donation from J. O. Halliwell, the eminent Shakesperean critic, of a collection of works relating to Shakespeare, formed at great cost by that gentleman. In 1875 a large collection of Persian and Arabic MSS. was presented by Mr J. B. Baillie of Leys.

The University Library contains about 138,000 printed volumes, and about 700 volumes of MSS., many of which are of great interest and value.

The University possesses some valuable pictures and busts, which are kept in the Library and Senate Hall.

The Library Hall, and the suite of rooms connected with it, occupy the south side of the College quadrangle.

The Library is open every lawful day, during the Winter Session from 10 to 4 o'clock, except on Saturdays, when it is shut at 1 o'clock. During the Summer Session the hours for public business are from 10 to 3; on Saturdays, from 10 to 12 o'clock.

There is a *READING ROOM* in connexion with the Library, open to all Matriculated Students, for purposes of study, and for the consultation of books.

The following Regulations, enacted in 1862, relate to the general management of the Library:—

I. The Librarian has the ordinary Management of the Library, subject to the superintendence of the Library Committee of the *Senatus Academicus*.

II. The *Senatus Academicus* annually appoints a Committee of their own number, called the Library Committee, whose duty it is, under the authority and subject to the directions of the *Senatus*, to take special charge of the affairs and business of the Library. This Committee consists of not less than five members, of whom three are a quorum; and one member at least of the Finance Committee is also a member of the Library Committee.

III. The Librarian and the Assistant Librarians are appointed by the *Senatus Academicus*, who have the power of suspending or dismissing them, subject to an appeal to the University Court.

IV. All books ordered for the Library are sent direct to the Librarian, and forthwith entered by him in the Catalogue, and noted with distinguishing marks; and no person is allowed to use or borrow any book until it has been entered in the Catalogue, and noted.

V. The *Senatus Academicus*, or their Library Committee, have power, from time to time, to make provision for the manner in which the ordinary business of the Library, in regard to borrowing and consulting books, is conducted, by establishing

a regular and authentic record of borrowing and returning books on such a system as secures their due return and preservation.

VI. The Librarian is required from time to time to prepare a list, to be submitted to, and adjusted and approved by, the Senatus, and when so adjusted and approved, to be kept by the Librarian, of such books, manuscripts, and other works, as ought not to be lent out of the Library, and which shall not be lent out on any terms; and the Senatus make regulations for allowing access to such works for consultation.

VII. The Librarian is required from time to time to prepare a list, to be submitted to, and adjusted and approved by, the Senatus, and when so adjusted and approved, to be kept by the Librarian, of such works as ought not to be lent out of the Library, except upon special application, and by special permission of the Library Committee; and the Senatus, from time to time, make general regulations as to the conditions under which such works may be borrowed; and in addition to such general regulations, the Library Committee may, in each individual case of borrowing such works, impose such special conditions as they may think necessary or expedient: Provided always, that every such special permission, and all such additional conditions imposed by the Library Committee, are entered in the Minute-book of the Committee.

VIII. A general Inspection of the Library of the University, and of the record kept, as above provided by Section V., of the borrowing and returning of books, takes place *annually in the second week of October*.

IX. During the period of the annual Inspection the Library is closed, and all works whatever, and by whomsoever borrowed, must be returned to the Library before the commencement of such period, under a penalty, previously fixed and publicly notified by the Senatus, of not less than one shilling a volume; and in the event of any volume not being returned before the expiration of one week after the last day of the inspection, the fine is repeated weekly until such volume is returned, or until

a copy of the work of the same edition, and of equal value, is, at the expense of the borrower, placed in the Library in its stead : Provided always, that the amount of the fine in the case of works borrowed by special permission as aforesaid, may be fixed either by general regulation of the Senatus, or by special condition imposed by the Library Committee in any individual case.

X. The use of the Library *by persons not being Students of the University* is subject to the following regulations :—

1. Each Member of the Senatus Academicus is entitled to have in his possession, at one time, twenty-five volumes but not more.
2. Each Member of the General Council, who has paid all fees necessary to entitle him to act as such, is, in each year in which he shall have paid a subscription to the Library of ten shillings and sixpence, entitled to have in his possession at one time four volumes, but not more : Provided always, that a payment, instead of such yearly subscription, of a composition of five guineas entitles a person to the like privilege, so long as he continues a Member of the General Council. In regard to the use of the Library by Members of the General Council, the year is held to date from the *fifteenth day of October*.
3. In consideration of the Annual payment of five pounds by the Royal College of Surgeons to the University, each Fellow of the College resident within ten miles of Edinburgh, is, in each year in which he pays a subscription of one guinea to the Library of that University, entitled to have in his possession at one time ten volumes, but not more. The College of Surgeons and the members thereof, as such are not entitled, in virtue of any former agreement or otherwise, to any privilege or use of the Library, except as herein as specially provided, and as regards such use of the said Library the year is held to date from the *fifteenth day of October*.
4. Subject always to the provision as to the return of books

at the annual period of inspection, every person in each of the above classes is entitled to retain each book for one month from the date of borrowing, if the book has been borrowed at any time between the *first day of October* and the *thirtieth day of April inclusive*, and for two months from the date of borrowing, if the book has been borrowed at any time between the *first day of May* and the *thirtieth day of September inclusive*; and further, after the expiration of such period of one month or of two months, as the case may be, he is entitled to retain each book until the annual period of inspection, unless notice is received by him from the Librarian, requiring the return of such book, which notice shall be issued on application being made for the same by any person entitled to the use of the Library, or by order of the Senatus Academicus, or of the Library Committee. The form of notice requires the return of the book within a certain short period, to be specified therein, under a penalty of not less than one shilling a volume, if the book be not returned within such period, and after the expiration thereof, under a further penalty of sixpence a volume for each day, as long as the book is not returned, until the amount of the fine exceeds the sum for which the book can be replaced in the Library, such penalties to be also specified in such notice. In the event of the Library possessing more than one copy of the book so applied for, and of all the copies being out of the Library, such notice as aforesaid must be sent to the earliest borrower.

XI. The use of the Library by *Matriculated Students of the University* is regulated as follows :—

1. Every Matriculated Student is entitled to have in his possession two volumes at one time ; and is entitled to retain any book for two weeks from the date of borrowing ; and further, to re-borrow any book for successive periods of two weeks, unless an application for the same

shall, in the meantime, have been made by another person entitled to the use of the Library. It is in the power of the Senatus Academicus, if they shall think it expedient, to allow Students, either generally or during any particular period of the year, to be in possession of more than two volumes at a time.

2. It is in the power of the Senatus Academicus, from time to time, to make such regulations as to a deposit of money by Students borrowing books from the Library, as they may think expedient ; and also to regulate the use of the Library by Students in consulting books in the Library itself.
3. No certificate of attendance upon a class may be granted by a Professor to any Student without the production of evidence to the Professor that the Student has duly returned all books which he may have borrowed from the Library.

XII. Students enrolled by the University of Edinburgh as attending the lectures of extra-academical teachers in Edinburgh (under the sixth sub-section of the sixth section of Ordinance, No. 8, Edinburgh, No. 3), are entitled to the like privileges in connexion with the Library of that University, and are subject in the same manner to any regulations to be made by the Senatus, as Matriculated Students of the University ; and no certificate of attendance on the lectures of any such teacher may be given to any Student so enrolled without the production of evidence to the teacher that the Student has duly returned all books which he may have borrowed from the Library.

XIII. It is in the power of the Senatus Academicus, from time to time, to grant the use of the Library to such extent, and on such conditions, as they may think expedient, to persons for purposes of literary research, and that whether such persons are members of the University or not. But no such privilege can in any case be granted except by minute of the Senatus, specifying the grounds on which the grant is made, and the conditions which have been attached thereto, an extract of which minute must be forthwith transmitted to the University Court.

XIV. All grants of the use of the Library made by the *Senatus Academicus*, in pursuance of the preceding section, terminate at the annual period of inspection of the Library, but may be renewed under like conditions, if again applied for, on the expiration of that period ; Provided always, that the Library Committee may be empowered by the *Senatus* to renew any such grant until the first meeting of *Senatus* after the expiration of the annual period of inspection, but no longer.

XV. In the event of any book being lost or injured, while in the possession of a person entitled to the use of the Library, he is liable either to replace the same, or to pay such fine, either as representing the value of the book, or otherwise, as may be fixed by the *Senatus Academicus*, or by the Library Committee, in the event of their having been empowered by the *Senatus* to fix the amount of such fines.

XVI. So long as any person remains in possession of a book which he is not entitled to retain, or allows any fine incurred by him to remain unpaid, the right of such person to borrow or retain any books whatever, or to exercise any of the privileges of the Library, is suspended, and remains in abeyance.

XVII. No book can, in any case, be given out of the Library except to the borrower in person, or to some one having written authority from him.

XVIII. On the expiration of the annual period of inspection, the Librarian must report to the *Senatus Academicus* in reference to the year then ended :—

1. The particulars of every case of admission to special privileges in the use of the Library :
2. The particulars of every case in which a person's right to the use of the Library has been suspended, or is in abeyance :
3. Every case of a book belonging to the Library having been replaced at the expense of a person entitled to the use of the Library :
4. A list of all books belonging to the Library known or found at the time of the inspection to be amissing, or seriously injured :

5. Any other matter which the Librarian may think it of importance to bring under the notice of the Senatus, or regarding which the Senatus may have directed him to report :

and the Senatus is required to forward a copy of the Librarian's Report to the University Court with their remarks.

XIX. At the conclusion of the annual period of inspection, a list is made of all persons who may have failed to return by that time any books borrowed by them, or to pay any fines incurred, along with the names of the books so unreturned, and the amounts of the fines then due ; and this list is exhibited in a conspicuous place in the Library ; and no name may be removed therefrom, until in each case the book or books be returned or replaced, or the fine or fines, which may have become due, be paid.

The following Supplementary Regulations are now in force :—

I. The provision of Sub-section 1 of Section XI. of the above Regulations is limited in its application to the use of the Library by Students who are not Masters of Arts of the University ; and, as regards such Students, it is in the power of the Senatus Academicus, if they think it expedient, to fix a certain longer period than two weeks from the date of borrowing as the period during which they are entitled to retain books, and that either generally or as applicable to any particular portion of the year, as the Senatus may think expedient. Any such extended period, and also the portion of the year to which the same applies, must be specified in the minute of the Senatus authorising the same, and an extract of such minute must be forthwith transmitted to the University Court.

II. Subject to the preceding Regulations, and specially to the Regulations in Sub-section 4 of Section X., the following classes of persons are entitled to the use of the Library, to the extent and under the conditions hereinafter specified, that is to say :—

1. Every person who has retired, or who shall hereafter retire, from the office of Principal or Professor on a retiring allowance, is entitled to have in his possession at one time ten volumes, but not more.

2. Any assistant to a Professor, to whom the Senatus Academicus think it expedient to grant the privilege of the Library, is entitled to have in his possession at one time ten volumes, but not more.
3. The Librarian is entitled to have in his possession at one time ten volumes, but not more ; and any Assistant Librarian to whom the Senatus Academicus think it expedient to grant the privilege of the Library, is entitled to have in his possession at one time four volumes, but not more : Provided always, that all books borrowed by the Librarian, or by any such Assistant Librarian as aforesaid, are duly and regularly entered in the ordinary Records of the Library as being so borrowed, in the same manner as books borrowed by other persons.
4. Any Master of Arts of the University, who, by reason of being under the age of twenty-one years, is not qualified to be a Member of the General Council, is entitled to have in his possession at one time, four volumes, but not more. It is, however, provided that, if he be not a Matriculated Student of the University, he must in each year pay a subscription to the Library of ten shillings and sixpence ; and also, that this Regulation is not to be construed to extend the privilege of the Library to persons qualified to become Members of the General Council, but who have not paid the fees necessary to entitle them to act as such.

[By the Act 31 & 32 Vict., cap. 48, sec. 28, no Graduate is disqualified from being a member of the General Council by reason of his being enrolled as a Student in any class of the University.]

READING ROOM.

There is attached to the Reading Room of the Library a separate collection of books set apart for the consultation of Students. Printed Catalogues of this collection may be purchased at the price of 2d each.

Any Student wishing to consult books from this collection in the Reading Room of the Library, must insert in one of the slips provided for the purpose, the number of his Matriculation Ticket, his Name and Residence, and the Title of the Book he

may wish to consult, and present the slip to the Librarian in attendance. Each separate Book must be applied for by means of a separate slip.

Each slip so presented will render the person who has signed it responsible for the book named upon it. The slip should, therefore, in each case be re-claimed from the Librarian in attendance, when the Book is returned, or whenever the Book applied for is not available.

Every volume must be returned by the person who has used it, before he leaves the Reading Room. Students are forbidden to leave on the table the Books used by them ; they are required to place them in the Librarian's hands, and to demand back their slips. To prevent confusion, this should be done a few minutes before the close of each hour by those who have to attend classes at the commencement of the next hour.

In addition to the books in the Reading Room collection, each Student is allowed to consult in the Reading Room Two Volumes daily from the General Library, provided always that he has handed in on the previous day, before 2 o'clock, P.M., slips in application for these two works. The same rules will then apply to such books as to books consulted from the Reading Room collection.*

No conversation, or noise likely to disturb those reading, is permitted in the Reading Room.

The Librarian holds the responsibility for the management of the Reading Room. Any point of difficulty that may arise, must be referred to him for decision, or, if necessary, through him to the Library Committee.

Every Student, on first applying for books in the Reading Room, must exhibit his Matriculation Ticket for Registration in the Book kept for the purpose in the room.

THEOLOGICAL LIBRARY.

This Library was founded in 1698 for the special use of Students in Theology. It contains above 10,000 volumes. The

* The regulations laid down in this paragraph are held in abeyance until the Reading Room Collection shall be complete.

management, by the amended constitution (1863), is vested in a Committee of six Curators, chosen by ballot, by the Cives of the Library, from their own number. No Cives can be elected a Curator unless he be at least in the second year of his attendance at the Divinity Hall. One-third of the Curators go out annually by rotation. The election takes place in the second week of December. The Curators elect one of their own number to be Treasurer. The Curators and Treasurer report the state of the funds, &c., to the Cives, the Theological Faculty, and the Senatus Academicus. The powers and privileges which formerly belonged to the Professor of Divinity are now given to the whole Theological Faculty. The books purchased are selected by the Theological Faculty. The purchase of books is restricted to theological works, and works subservient to theological study. The Professor of Divinity, who is *ex officio* Honorary Librarian, appoints annually an acting Librarian. None are Cives of the Theological Library but Students of Divinity, or those who have been Students of Divinity at this or at some other Scottish University. Students of Divinity attending this University are admitted as Cives on paying each a contribution of two shillings and sixpence per annum; and those who have been Students of Divinity at this or at some other Scottish University are admitted on paying each a contribution of five shillings per annum. But no person who, during any year or years of his attendance at the Divinity classes the University of Edinburgh, may have failed to enter as a Cives, is in any after years allowed to do so, until he has paid up the arrears of two shillings and sixpence for each of the years of his attendance as a Student of Divinity at this University in which he has failed to pay the said annual contribution. No books can be kept out of the Library longer than two months.

PORTRAITS AND BUSTS IN THE SENATE HALL,
LIBRARY, AND COURT ROOM.*

I.—Portraits of Principals, Professors, and others, in Senate Hall.

1. Robert Rollock, first Principal of the University (1585-1599).
2. Andrew Cant, Principal of the University (1675-1685).
3. William Carstares, D.D., Principal of the University (1703-1716),
by Aikman.
4. William Robertson, D.D., Principal of the University (1762-
1793), by Raeburn.
5. Adam Ferguson, LL.D., Professor of Moral Philosophy (1764-
1785), by Raeburn.
6. Andrew Dalzel, M.A., Professor of Greek (1772-1805), after Rae-
burn.
7. John Robison, LL.D., Professor of Natural Philosophy (1774-1805),
by Raeburn.
8. James Finlayson, D.D., Professor of Logic and Metaphysics (1786-
1808).
9. John Playfair, M.A., Professor of Mathematics, and afterwards of
Natural Philosophy (1785-1819), by Raeburn.
10. Thomas Brown, M.D., Professor of Moral Philosophy (1810-1820).
11. Andrew Duncan, M.D., Senior Professor of Institutes of Medicine
(1789-1819).
12. George Husband Baird, D.D., Principal (1793-1840), after Geddes.
13. Sir John Leslie, Professor of Natural Philosophy (1819-1833), after
Sir David Wilkie.
14. John Bruce, Professor of Logic and Metaphysics (1774-1786), after
Raeburn.
15. John Donaldson, Professor of Music (1845-65).
16. John Knox (1505-1572).
17. George Buchanan (1506-1582). 2 Portraits.
18. John Napier of Merchiston, Inventor of Logarithms (1550-1617).
19. James Thomson, Poet (1700-1748).
20. Hugh Blair, D.D., Professor of Rhetoric (1762-84), by Martin.
21. Robert Graham, M.D., Professor of Botany (1820-1845), by Colvin
Smith.

* In order to honour and perpetuate the names of the individuals who have founded Scholarships, Bursaries, and new Chairs in the University, the Senatus Academicus has made arrangements for placing Busts or Portraits of them in the Library and University Court Room.

Several portraits and busts are expected in the course of the present Session.

Regarding as Benefactors the eminent Professors who have elevated the character of the University by their writings or discoveries, the Senatus is anxious to procure Portraits or Busts of James and David Gregory, Colin Maclaurin, Matthew Stewart, Dr Cullen, Joseph Black, Dr James Gregory, Dr Monro, *secundus*, Dr Monro, *tertius*, Dr Alison, Dr Chalmers, Sir Charles Bell, Lord Woodhouselee, Dr Thomas Charles Hope, Professor Miller, Professor Ross, Professor Aytoun, Professor Macdougall; and the Senatus is anxious for the assistance of the friends and admirers of these gentlemen in obtaining them.

II.—*Portraits and Busts of Principals and Professors in Library.*

PORTRAITS.

1. John Lee, D.D., LL.D., M.D., Principal of the University (1840-1859), by Sir John Watson Gordon.
2. Alexander Brunton, D.D., Professor of Hebrew and Oriental Languages (1813-1848), by Sir John Watson Gordon.
3. John Wilson, Professor of Moral Philosophy (1820-1853) by Scott Lauder.

BUSTS.

1. John Lee, D.D., LL.D., M.D., Principal, &c., by Slater.
2. Alexander Monro (*primus*), M.D., Professor of Anatomy (1720-1754), by Flaxman.
3. William Cullen, M.D., Professor of Chemistry (1755-1790), by Gowans.
4. John Playfair, M.A., Professor of Mathematics, and afterwards of Natural Philosophy (1785-1819), by Chantrey.
5. John Thomson, M.D., Professor of General Pathology (1831-1842), by Steell.
6. Thomas Charles Hope, M.D., Professor of Chemistry (1795-1844), by Steell.
7. Macvey Napier, M.A., Professor of Conveyancing (1825-1847), by Slater.
8. George Dunbar, M.A., Professor of Greek (1805-1852), by Slater.
9. James Pillans, LL.D., Professor of Humanity (1820-1863), by Slater.
10. Robert Jameson, Professor of Natural History (1804-1854), by Steell.
11. Edward Forbes, Professor of Natural History (1854-55), by Steell.
12. Robert Blair, Professor of Practical Astronomy (1786-1834).
13. Dugald Stewart, Professor of Moral Philosophy (1775-1810), by Joseph.
14. Sir John Leslie, Professor of Natural Philosophy (1819-1833), by Steell, after Joseph.
15. Andrew Duncan, senior, Professor of Institutes of Medicine (1789-1819), by Slater.
16. Sir William Hamilton, Bart., Professor of Logic and Metaphysics (1836-1856), by Brodie.
17. John Goodsir, Professor of Anatomy (1846-1867), by Brodie.
18. Sir Robert Christison, Bart., Professor of Materia Medica, by Brodie.
19. Robert Lee, D.D., Professor of Biblical Criticism (1847-1860), by Brodie.
20. George James Allman, Professor of Natural History (1855-1870), by Hutcheson.
21. Sir Jas. Y. Simpson, Bart., Professor of Midwifery (1840-1870), by Brodie.

22. James Syme, Professor of Clinical Surgery (1833-1869), by Brodie.
23. John Schank More, Professor of Scots Law (1843-1861).
24. Andrew Brown, Professor of Rhetoric (1801-1835).
25. J. H. Bennett, Professor of Institutes of Medicine (1848-1874), by Brodie.
26. Thos. Jackson Crawford, D.D., Professor of Divinity (1859-1876), by Brodie.
27. H.R.H. the Duke of Edinburgh, by Steell.
28. The Hon. Lord Rutherford, by Theed.
29. A. H. Rhind of Sibster, by Brodie.
30. Sir John Watson Gordon, after Park.

III.—*Portraits in Court Room.*

1. Sir David Baxter of Kilmaron, Bart., by Sir John Watson Gordon.
2. J. Stewart Hepburn, Esq., of Colquhalzie, by Colvin Smith.
3. Sir John M'Pherson, late Governor-General of India, after Reynolds.
4. George Heriot, after the original in Heriot's Hospital.
5. W. Patrick, Esq., of Roughwood, after Colvin Smith.
6. George Parker Bidder, Esq., by Alfred Dever.
7. The Right Honourable John Inglis, Lord Justice-General, by Sir J. Watson Gordon.
8. Sir William Fettes, Bart., after Raeburn.
9. General John Reid, Founder of the Chair of Music (1735-1803).
10. Lord Provost Elder, by Raeburn.
11. Daniel Ellis, Esq., by Colvin Smith.
12. Captain Thomas Drummond, by Pickersgill.
13. Sir Roderick Impey Murchison, Bart., by Pickersgill.

TORRY FINE ARTS COLLECTION.

Sir James Erskine of Torry, by a Will, dated April 1834, bequeathed to the University his Pictures, Bronzes, and Marbles, "for the purpose of laying a foundation for a GALLERY for the encouragement of the Fine Arts." The collection is at present temporarily deposited in the National Gallery, until funds can be obtained for its suitable display in the College, and for carrying more fully into effect the intentions of the testator.

The Pictures, forty-six in number, which are in the finest preservation, have been collected with much judgment, as choice specimens of the works of different Masters, especially in the Flemish and Dutch Schools. The Marbles, seventeen in number, and twenty-three Bronzes, have been chosen with a correct appreciation of the merits of this department, and reflect credit on the taste and public spirit of Sir James Erskine.

Museums.

I. THE MUSEUM OF NATURAL HISTORY.

THE Museum of Natural History was established in 1812 in connexion with the University. It contains Zoological, Geological, and Mineralogical Collections. The greater portion of it was formed by the exertions of Professor Jameson, who was fifty years Professor of Natural History and Regius-Keeper of the Museum.

In 1854 it was transferred by the Town Council, at that time the Patrons of the University, to Government, under whose control it has since continued. The whole of the collections have been now removed from the old rooms hitherto occupied by them in the University to the Natural History Department of the New Museum of Science and Art. They are available for the educational purposes of the University, and are freely accessible to the Students attending the Natural History Class.

II. THE ANATOMICAL MUSEUM.

This Museum was founded in 1800 by Dr Monroe, *secundus*, who presented his own Anatomical Collection, and that of his father, to the University, "to be used by his future successors in office for the purpose of demonstrating and explaining to the Students the structure, physiology, and diseases of the human body." In the year 1859, Sir David Monroe, M.D., presented a considerable collection of anatomical preparations, which had been formed by his father, Dr Alexander Monroe, *tertius*. Numerous additions were also made to the Museum by the late Professor Goodsir, more especially in the department of Comparative Anatomy, and on his death the Senatus Academicus

purchased from his representatives, his Private Museum, which has been added to the Collection. The Museum now contains several thousand specimens in illustration of Human Anatomy, both normal and pathological, and of Comparative Anatomy.

The Conservator will be glad to receive contributions of rare and interesting specimens from Graduates and former Students of the University.

Conservator of the Museum, the Professor of Anatomy ; Assistant-Conservator, Mr A. B. Stirling. The Museum is open on Tuesdays, Thursdays, and Fridays, from 2 to 4 o'clock.

III. CLASS MUSEUMS.

There are Museums in connexion with the classes of Natural Philosophy, Materia Medica, Midwifery, and Botany, and Professor Geikie has now fitted up a Museum for the use of the class of Geology. There is also attached to the Chair of Music a Museum, containing many interesting objects.

The Botanic Garden.

THE Royal Botanic Garden, Inverleith Row, is connected with the University, in so far as the Professor of Botany is Regius-Keeper, and delivers his Lectures in the Class-room in the Garden. It extends to 27 acres, and contains an extensive range of Greenhouses and Hothouses, with a large Palm-house 70 feet high, 96 feet long, and 57 feet broad. There is an arrangement of British plants according to the Natural System; a general collection of hardy plants of all countries, according to the same system; and a series of medicinal plants, of which a Catalogue has been printed. There is also a collection of European plants, according to the Linnean System, and an extensive Arboretum. Students have ample facilities for studying the plants in the Garden, and they are examined on the plants in the collection. There is also a Library in a room adjoining the Herbarium.

The Botanical Museum is open at all times to Students, and the specimens contained in it are used for illustrating the Lectures. The University Herbarium is kept in the large hall at the Garden, and it can be consulted under the direction of the Professor or the Curator, Mr F. M. Webb.

In this Herbarium the plants are arranged geographically, so as to enable Students to examine the Flora of different countries. There is a general arrangement of flowering plants, illustrating the orders and genera of the whole globe. There is also a general arrangement of cryptogamic plants. There are special collections of British plants, and of medicinal and economical plants.

The Botanic Garden is open daily during the summer, from 6 A.M. to 6 P.M.

A Guide to the Garden has been published by Messrs. Edmonston & Douglas; and a List of Medicinal and Poisonous Plants, cultivated in the Garden, has been published by Messrs. Maclachlan & Stewart. Both these may be had at the Garden.

Synopsis

OF THE COURSES IN THE CLASSES

1878-79.

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CLASSES IN THE FACULTY OF ARTS OR OF
LITERATURE AND PHILOSOPHY.

The Curriculum in Arts.*

THE ordinary Academical Curriculum in the Faculty of Arts with a view to a Degree, extends over FOUR WINTER SESSIONS, and comprehends attendance on all the Classes enumerated in No. I. of the following *Regulations for Graduation in Arts*.

By No. II. of the following *Regulations*, Students who pass an Entrance Examination in Latin and Greek, sufficient to satisfy the Faculty that they are qualified to be admitted to the Higher Classes of Latin and Greek, may complete the Curriculum in Arts, with a view to Graduation, within THREE WINTER SESSIONS, in terms of that Regulation; and Students who pass the Entrance Examination in Mathematics, may dispense with a Second Session of attendance at the Mathematical Classes.

Students who desire, in accordance with *Regulation* No. II., to be freed from a Second Session of attendance in the *Latin and Greek Classes*, in order that they may thus be enabled to complete the Curriculum in Arts, with a view to a Degree, within Three Winter Sessions, must present themselves for Examination in Latin and Greek at the *commencement* of the FIRST SESSION of their attendance in the University.

Students who, in accordance with the same Regulation, desire exemption from a Second Session of attendance in *Mathematics*, must also present themselves for examination at the *commencement* of their FIRST SESSION.

For the subjects of Examination in Latin, Greek, and Mathematics, see under *Entrance Examination for Curriculum of Three Sessions*, page 118.

* The annual expense, for Class Fees, Matriculation, &c., of the regular Course in Arts may be estimated at about £10, 10s.

The names and schools of those who pass these Entrance Examinations are annually published.

ORDER OF STUDY IN THE FACULTY OF ARTS.

It is particularly recommended by the Faculty—

1. That in a Curriculum of Four Sessions, the Junior Classes of Humanity, Greek, and Mathematics, or any two of them, be attended in the *First* Session.

* * *Students who attend the Junior Mathematics, in their First Session, along with the Junior Humanity and the Junior Greek, may obtain a dispensation from attendance in the Junior Humanity from 12 to 1 o'clock.*

2. That Natural Philosophy be attended along with, or at any rate not before, one of the Mathematical Classes.
3. That in a Curriculum of Four Sessions, the Class of Logic and Metaphysics be attended in the *Second* Session, or (alike in a Curriculum of Four, and one of Three Sessions) *at all events in a Session preceding that in which the Class of Moral Philosophy is attended.*

A. C. FRASER, *Dean.*

—o—

I. HUMANITY—(Latin.)

PROFESSOR SELLAR.

Junior Class—12 to 1 and 2 to 3.

The work of the Class consists of—

1. Daily readings and explanations of parts of Virgil, Horace, Livy, Cicero, Tacitus (*Agricola*, or *Germania*); occasionally Terence, or Tibullus;—
2. Oral Examinations and occasional Lectures on Roman History and Antiquities;—

Books recommended—Merivale and Puller's School History of Rome, or Liddell's Student's History of Rome; "Rome to its Capture by the Gauls," in *Epochs of Ancient History*; Ramsay's Elementary Manual of Roman Antiquities.

3. Exercises in Latin Prose Composition;—
4. Written Examinations—partly on the subjects prepared for the Class, partly on subjects prescribed for voluntary reading.

Senior Class—10 to 11.

The work of the Class consists of—

1. Readings and explanations of parts of Virgil, Horace,

Juvenal or Plautus, Cicero (*Letters, or Speeches*), Tacitus (*Annals, or Histories*);—

2. Lectures and Prelections in Roman Literature;—

3. Exercises in Latin Prose, and voluntary Exercises in Latin Verse;—

4. Written Examinations—partly on the Books read and the Lectures delivered in the Class, partly on Books and portions of Roman History prescribed for voluntary reading.

Books recommended—Merivale's General History of Rome; "The Roman Triumvirates" and "The Early Roman Empire," in *Epochs of Ancient History*; Nichol's "Tables of Ancient History;" and Cruttwell's History of Latin Literature.

Third Class—2 to 3.*

The third Latin Class meets every alternate year. It is intended to direct the studies of Candidates for University Scholarships and Honours in Graduation.

The work of the Class consists of—

1. Readings and explanations of the more difficult Latin Authors, such as Tacitus, Lucretius, Plautus, &c. ;—

2. Lectures on Roman History and Literature, chiefly in connexion with the Authors read in the Class;—

3. Essays (English and Latin) on questions arising out of the Lectures or Books read, and Exercises in Latin Prose Composition;—

4. Written Examinations on the work done in the Class, and on subjects prescribed for voluntary reading.

II. GREEK.

PROFESSOR BLACKIE.

First Class—9 to 10 and 1 to 2.

Xenophon, or other easy Greek prose writer; Homer; Daily Exercises in Greek Prose Composition and Conversation; Description of objects in Greek; Clyde's Greek Syntax; Blackie's Greek Dialogues.

* This Class does not meet in Session 1878-79.

Second Class—11 to 12.

Diodorus Siculus, lib. i.; Herodotus, lib. ii.; Strabo, lib. xvii.; a Play of Euripides or Sophocles; Homer; Exercises in Greek Prose Composition. Expositions or Lectures **once a week.**

Third Class—2 to 3.

Plato's Politics and Aristotle's Politics; Greek composition.

III. MATHEMATICS.

PROFESSOR KELLAND.

First Class—12 to 1.

Theory of Arithmetic; Six Books of Euclid and part of the Eleventh Book; Plane Trigonometry, with its applications; Mensuration; the Elements of Perspective; and Geometrical Conic Sections.

Text-Book.—Playfair's "Geometry and Trigonometry."

Second Class.—10 to 11.

Introductory Lectures on the first principles of Algebra and Quaternions. Algebra, with its applications to Analytical Trigonometry, and Analytical Conic Sections.

Text-Book.—Kelland's "Algebra."

Third Class.—9 to 10.

On Mondays, Wednesdays, and Fridays—The Differential and Integral Calculus and its applications.

Text-Book.—Hall's "Differential and Integral Calculus."

Examinations *viva voce* are carried on daily in all the Classes. Written Examinations take place on alternate Saturdays. Exercises for solution at home are given out on Fridays. The Prize List is made out from a summation of the whole work.

IV. LOGIC AND METAPHYSICS.

PROFESSOR CAMPBELL FRASER.

The Lectures comprehend the following subjects:—

A.—LOGIC—PURE AND MIXED.

Introduction—Province, Parts, and Purpose of Logic.

The Course embraces—

1. PURE OR FORMAL LOGIC.—The Forms of Proposition and Reasoning, deduced, according to the laws of the consistency of thought with itself, from the Concept or Notion regarded as a logical Quantity—the Science of Syllogism : Fallacies ; Logical methods for improving the Quality of our thoughts and their relations to the Words we employ.

2. MIXED OR MATERIAL LOGIC. — Evidence of Human Authority ; Circumstantial, Analogical, and Inductive Evidence ; Evidence of Consciousness : Nature and Causes of Error.

B.—METAPHYSICS OR PHILOSOPHY OF MIND.

Introduction—Province, Methods, and Purpose of Metaphysics.

The Course, embracing the outlines of Psychology, after a general account of the Constitution of Man, and of the chief problems in Mental Philosophy, investigates HUMAN KNOWLEDGE in its factors and constitutive elements, at three degrees of its development :—PERCEPTION in sense of things present in Space ; IDEATION, or REPRESENTATION, in Memory, Imagination, and Expectation, under laws of Mental Association or Suggestion ; UNDERSTANDING, or Scientific Intelligence.

Lectures on Logic are given on Mondays and Fridays, and those on Psychology on Tuesdays and Thursdays, at *one* o'clock : Wednesday, at that hour, is usually devoted to oral examinations.

Students who have attended in a previous Session are formed into a Senior or Higher Class, for more advanced study of Metaphysics, with occasional meetings at a separate hour.

HISTORY OF PHILOSOPHY.—Lectures on the History of Philosophy, intended for the Senior Class, weekly, at *three* o'clock.

Text-Books.—Jevons's "Elementary Lessons in Logic," for beginners in the science,—as a preparation for the Course in Logic : the Professor's "Selections from Berkeley" used during the Session in connexion with the lectures on the Philosophy of Mind. Other books, for occasional reference, or for special study by the

more advanced, mentioned at intervals in the course of the Session.

"Bruce of Grangehill and Falkland's Prize," is given annually as the highest honour in the classes of Logic and Metaphysics.

V. MORAL PHILOSOPHY.

PROFESSOR CALDERWOOD.

Ordinary Class.

The following are the subjects embraced in the Course of Moral Philosophy :—

INTRODUCTION.—Province and Aim of Moral Philosophy.

1. PSYCHOLOGY OF ETHICS.—Knowledge of Moral Distinctions ; the Moral Faculty ; Impulses to Action ; Restraints upon Action ; the Will ; Moral Sentiments Accompanying Moral Judgments and Moral Actions ; the Disorder of Moral Nature.

2. METAPHYSIC OF ETHICS.—The Being of God ; His Attributes ; His Moral Government ; the Foundation of Virtue ; the Relation of Divine Sovereignty to Free-Will ; the Relation of Human Desire to Divine Sovereignty ; the Origin of Evil ; the Immortality of the Soul.

3. APPLIED ETHICS.—Man's Position in the World ; Guidance of Man as an Individual ; Laws Regulating the Formation of Moral Character ; Guidance of the Individual as a Member of Society ; Guidance of the Community ; Natural Religion.

4. THE HISTORY OF MORAL PHILOSOPHY.—The Rise of Philosophy ; Distinction of Moral from Intellectual Philosophy ; Development of Systems of Moral Philosophy in Ancient and Modern Times, with their relations to General History.

The Course is devoted to lectures, oral and written examinations, and essays.

Text-Books.—The Professor's "Handbook of Moral Philosophy," and Kant's "Metaphysic of Ethics."

Books recommended for Reading.—Zeller's "Socrates and the

Socratic Schools," and "Stoics, Epicureans, and Sceptics;" Sir Alexander Grant's "Ethics of Aristotle," and Macintosh's "Dissertation," Price's "Principal Questions in Morals," Reid's "Active Powers," and Mill's "Utilitarianism."

Advanced Class.

This Class is intended for those who have gone through the ordinary course in Moral Philosophy, and wish to carry their studies further.

The subjects of study are the following:—The Ethical System of Socrates as presented in Xenophon's "Memorabilia," and in Plato's "Protagoras" and "Apologia." The Moral System of Plato as developed in the "Republic." Aristotle's "Nicom. Ethics." The rise of Modern Philosophy; the "Method and Meditations" of Des Cartes; Spinoza's "Ethics;" Kant's Ethical System; the place of Moral Philosophy in Hegel's Theory; the development of Utilitarianism.

VI. NATURAL PHILOSOPHY.

PROFESSOR TAIT.

Ordinary Class.

The subjects embraced in the Course of Natural Philosophy are the following:—

1. Properties of Matter—including Inertia, Gravitation, and Molecular Forces.
2. Abstract Dynamics—including Kinematics, Statics and Kinetics of Solid, Liquid, and Gaseous Bodies, with their applications.
3. Sound, and Wave-propagation in general.
4. Heat, with its application to the Steam-Engine, &c.
5. Light (Geometrical and Physical Optics).
6. Electricity, including Frictional and Voltaic Electricity, Thermo- and Magneto-Electricity, Electro-Dynamics, and Magnetism, with their practical applications to the Telegraph, &c.
7. Conservation of Energy.
8. Plane and Physical Astronomy.
9. Meteorology.

Properties of Matter, Abstract Dynamics (commonly called Mechanics), and Conservation of Energy, together with two or three others of the above divisions of the subject, are treated in detail every Session, the remainder being necessarily discussed in a more superficial manner, as it is impossible to enter at length into all in the course of a single Session.

It is intended that in Session 1878-79, in addition to Sections 1, 2, and 7, Sections 3 and 5 shall form the more detailed part of the Course.

The whole Class is examined fortnightly during the Session upon the subjects already treated in the Lectures ; and a prize is given for the best answering. In these examinations no Mathematics are requisite, except the *most elementary portions* of Arithmetic, Algebra, and Geometry.

In the months of January and March there are special Examinations upon particular subjects ; and, on these two occasions only, the Class is divided into two parts—the division depending mainly upon the students' proficiency in Mathematics. In the *Lower* Division, the elements of Algebra and Geometry alone are required ; in the *Higher*, Algebra, Geometry, and the Geometry of the Conic Sections, are necessary.

[In former years, the Ordinary Class was arranged in *three* divisions, but the recent introduction of the *Advanced Class* (see below) has rendered the highest of these three superfluous.]

The Prizes in each division of the Class are determined by adding the marks obtained in the two sets of Examinations above described. No Student who has obtained a Prize in either Division of the Class can be allowed to compete, in a subsequent Session, for a Prize in the same or in a Lower Division.

The Text-Book for the Course will be Thomson and Tait's "Elements of Natural Philosophy" (Pitt Press, Cambridge.) But as the first volume only has yet been published, for the remainder of the subject the student may consult Balfour Stewart's "Lessons in Elementary Physics," and Tait's "Recent Advances in Physical Science."

Throughout the experimental part of the Course, constant re-

ferences will be made to Tait's "Sketch of Thermodynamics" (Second Edition, 1877), which has been prepared as a Text-Book to serve till the second volume of Thomson and Tait's "Elementary Treatise on Natural Philosophy" is published.

The special Examinations in January 1879 will be on the following subjects :

Higher Division.

Newton's "Three Sections" (Goodwin's Course of Mathematics," Frost's "Newton," or any good edition of the *Principia*).

Lower Division.

Herschel's "Astronomy," in Lardner's Cyclopædia, omitting the chapter on Perturbations. A series of explanatory lectures will be given by the Class-Assistant before the examination.

The subjects for the March Examinations will be announced soon after the commencement of the Session.

Subject of Voluntary Essay to be given in before the end of March 1879—"Grave Misstatements of Fact and Inaccurate Reasoning in Works on Elementary Physics."

ADVANCED CLASS.

For the benefit of Engineering Students, and of Arts Students wishing to Graduate with Honours in the Department of Mathematics, Professor Tait has opened an Advanced Class. Three lectures are given per week, and the subjects are—

Dynamics (generally),

Theory of Heat,

Theory of Electricity,

all treated specially with regard to their practical applications.

SUMMER CLASS FOR MEDICAL STUDENTS.

At the request of the Medical Faculty, Prof. Tait intends to repeat the experiment of the years 1875-76, by opening an elementary class of Experimental Physics in May 1878, chiefly for Medical Students. But the formation of the class is now made conditional upon its being shewn, by the enrolment of at least 50 names, that there is a real demand for a Summer

Class of Natural Philosophy on the part of Students who are unable to attend the ordinary Winter Class.

PHYSICAL LABORATORY.

Here Students may acquire a practical knowledge of the construction of, and manner of using, physical apparatus, with the mode of conducting experimental inquiries. The Laboratory is open for five or six hours daily during the Winter and Summer Sessions, under the personal superintendence of the Professor and his Class-Assistant. It is hoped that, with the valuable collection of apparatus in the Museum, results of real use to science may be obtained.

VII. RHETORIC AND ENGLISH LITERATURE.

PROFESSOR MASSON.

The business of this Class will comprehend—

1. A Course of Lectures on Rhetoric and the Principles of Literature. A portion of this Course will consist of Lectures on Style and the more minute points of English Composition; after which there will be a systematic exposition of the principles and methods of Literature in each of its leading kinds successively, in the following order:—(1.) Historical and Descriptive Literature; (2.) Expository or Didactic Literature; (3.) Eloquence and Oratorical Literature; (4.) Poetry and the Literature of Prose-Fiction. The Course will be illustrated throughout by critical references to important authors, and by examples from their writings.

2. A course of Lectures on the History of English Literature. This course will include a complete chronological survey of British Literature from the earliest times to the present, divided into periods. Under each period will be furnished a list of all its writers of any note; the lives and writings of the more important or representative poets and prose-writers of each period will be reviewed more at large; and the general aim will be to exhibit the successive movements and variations of our Literature in their connexions with the course of our National and Social History. It will also be so arranged that the Course

shall include a view of the history of the English Language, from "Anglo-Saxon," through early English and its Dialects, to present English.

3. Instruction in English Composition, and in Reading. In order that justice may be done to this part of the business of the Class, one of the meetings in each week will generally be devoted to practical work of various kinds, including examinations, readings by the Students themselves, and brief written exercises to be done by them in the class-room. Subjects will also be prescribed for more extensive Essays to be written at home. There will be Prizes for merit in the Essays, in addition to the other Class-Prizes.

Books Recommended.—Aristotle's "Rhetoric"; Bain's "English Composition and Rhetoric"; Morley's "First Sketch of English Literature"; "Three Centuries of English Poetry"; Morris's "Historical Outlines of English Accidence"; Sweet's "Anglo-Saxon Reader".

VIII. PRACTICAL ASTRONOMY.

PROFESSOR PIAZZI SMYTH.

The Professor of Practical Astronomy is also, by one and the same act of appointment under Her Majesty's hand, Astronomer Royal for Scotland; and has, in consequence, daily duties of a very onerous character, and wholly unconnected with the University, to perform throughout the year in the Royal Observatory, Edinburgh, on the Calton Hill.

Nor has this Chair ever been taken up by the University authorities and made necessary for graduation in any of the Faculties, nor supplied with efficient apparatus, nor found at any time to have a sensible amount of demand for it among the Students in general of the University. Hence the present Professor Astronomer-Royal, after having voluntarily tried the experiment of giving a course of Practical-Astronomy Lectures, and kept it up for several laborious years, whenever there were only two Students to hear—has limited himself of late to *receiving* (on a day announced in the University Calendar) any

matriculated applicants for practical Astronomy, ascertaining in a friendly manner something of their calibre and objects, and then advising or assisting such gentlemen afterwards in their studies, at various periods through the Session, according to circumstances, and hitherto gratuitously. Nor can he now, in the enlarged sphere of his public duties at the Royal Observatory, devote more of his time to extraneous occupations without that Government office committed to his care suffering serious damage.

IX. AGRICULTURE AND RURAL ECONOMY.

PROFESSOR WILSON.

The Course of Lectures comprises two divisions: the first part of the Course treating mainly of the *Principles*, and the second of the *Practices* of Agriculture.

FIRST DIVISION.—History of Agriculture. General purposes of Agriculture; conditions affecting it; and scientific principles on which it is based.

These latter comprise: 1. The *Chemistry of Agriculture*, including the Constituents and Analytical Composition of Soils, and of the Cultivated Plants:—The Composition and Physical and Chemical Agencies of the Atmosphere, and of Water:—The Composition and Application of Manures, Organic and Inorganic. 2. The *Geology of Agriculture*, including the Formation of Soils, their Classification,—Chemical and Physical Characters, and suitability for the Growth of different Crops:—their Economic or Industrial Characters. 3. The *Botany of Agriculture*, including “Our Farm Crops,” or Crops cultivated for Food and for industrial purposes.—Cultivation of Forest Trees.—Formation and Management of Plantations, &c. 4. The *Physics of Agriculture*, including Meteorology, or the Laws of Climate:—Light, Heat, &c., as influencing Plant Life.

SECOND DIVISION.—The *Mechanics of Agriculture* and their application to the different descriptions of Machines, Implements and Labour required on a Farm. Steam Tillage. Sequence of

Agricultural Operations. Economical Division of Labour. Rotations of various districts discussed and explained. Improvements of the Soil by Draining, Manuring, Liming, &c. Live Stock. The *Economics of Agriculture*. Farm Engineering and Construction. Agricultural Policy. General Management and Improvement of Landed Property.

X. MUSIC.

PROFESSOR SIR HERBERT OAKELEY.

1. Lectures given will be on some of the following subjects:—

History and Development of the Art and Science from early times ; various schools and styles of Music ; History and construction of some of the principal Musical Instruments ; the modern Orchestra, &c. ; or on the works of the great masters.

Organ Performances, with instructive remarks or programmes, will be given from time to time during the Session.

2. Separate and Individual instruction in Organ or Pianoforte playing may be afforded to a certain number of younger Students. To these, the Theory of Music will be practically imparted.

XI. SANSKRIT AND COMPARATIVE PHILOLOGY.

PROFESSOR EGCELING.

A.—SANSKRIT LANGUAGE.

1. *Junior Class*.—Grammar and Exercises. The episode of Nala. Hitopadeśa. Easy translations from English into Sanskrit.

2. *Senior Class*.—Repetition of Grammar. Translations from English into Sanskrit. Kālidāsa's Raghuvansā. Manu's Institutes of Law. Selected Hymns of the Rigveda.

B.—SANSKRIT LITERATURE.

A Course of Lectures will be delivered on the History of Sanskrit Literature.

C.—COMPARATIVE PHILOLOGY.

A course of lectures will be delivered on the principles of Comparative Philology.

These two courses of lectures will be free to Students attending either of the Sanskrit classes. They will also be open to other persons on certain conditions, of which information may be obtained in the office of the Secretary of Senatus.

XII. ENGINEERING (CIVIL AND MECHANICAL).

PROFESSOR FLEEMING JENKIN.

Winter Session.

1. CLASS OF ENGINEERING.—The Object of the Course will be to show the practical application of Science to some branches of Engineering. The Series of Lectures will form a Two Years' Course, so arranged that Students can enter on the Course at the beginning of either year, and should they attend for one year only, will receive instruction in the four following subdivisions of the subject matter :—

1. Applied Mechanics ; 2. One Branch of Civil Engineering ; 3. One Branch of Mechanical Engineering ; 4. A Series of Examples of the Application of Machinery to Manufacturing Purposes.

The following is a Synopsis of the Lectures for the Session :—

1. Principle of Statics ; couples ; moments of forces, parallel and inclined forces ; centre of gravity ; moments of inertia.

2. Equilibrium and stability of frames, bracing, cords, ribs and linear arches.

3. Strength of Materials, stretching, crushing, breaking, bending, and twisting.

4. Strength of the simpler forms in which materials are used, screws, bolts, studs, rivets, shafts, belts, toothed wheels, brackets, bearings, cranks, ropes, chains, wire, &c.

5. Application of mechanical principles to combined structures, especially *roofs and bridges*.

6. Principles of Dynamics, Newton's Laws of Motion, Conservation and Transformation of Energy.

7. Application of the principles of Dynamics to prime movers, especially to the condensing steam engine.

8. Theory of Heat Engines, especially of the condensing steam engine.

Four Examinations are held during the Session, and each week, when Examinations are not held, voluntary exercises are given to be worked at home. The questions in these exercises are such as are met with in the practice of Engineering, and being returned annotated and corrected to the Students, form a body of Examples for subsequent reference.

Engineering Works and Factories will be visited by the Class, under the guidance of the Professor.

II. CLASS OF MECHANICAL DRAWING.—Students can attend the Drawing Class between 10 and 1 each day.

The work will be examined and instruction given, at 10 o'clock, after the conclusion of the Engineering Class; the Class will at other times be taught by an Assistant, who will attend from 10 to 1.

The Drawing Class may be attended by Students who are not following the Engineering Class, and especially might be attended with advantage by those Students who propose in subsequent years to attend the Class of Engineering, as it is of much importance to the Student that he should be able readily to understand the diagrams of machinery, and to apply the graphic methods of calculation employed by the Engineer. The examples given to the Students are of a practical character, consisting chiefly of actual working Engineering Drawings. They are also taught to make Drawings from the details of actual Machines.

Summer Session.

III. PRACTICAL SURVEYING.—A Short Course of Practical Surveying, Levelling, Contouring, and Setting Out, will be given.

Lectures on the Instruments employed will be delivered during one fortnight in the Class-Room of the University, and these lectures will be followed by a fortnight's practical work in the field. This practical work will require the whole of the Students' time during each day; and hence the number of hours

during which instruction is given will correspond to an ordinary course extended over a much longer period.

Course of Study.

The following course of study is recommended :—

1st Year.—Mathematics (1st Class), Geometrical Drawing, Chemistry.

2d Year.—Mathematics (2d Class), Natural Philosophy, Engineering, Mechanical Drawing.

3d Year.—Surveying and Levelling (Summer Session), Natural Philosophy (Advanced Class), Engineering.

If the Student is sufficiently well prepared, the first year's course may be dispensed with, with the exception of Chemistry.

XIII. GEOLOGY AND MINERALOGY.

PROFESSOR GEIKIE.

This Course embraces a system of instruction in the following subjects :—

1. THE HISTORY OF GEOLOGY—an outline of the growth of the science from the time of the early cosmogonies downwards.

2. ASTRONOMICAL GEOLOGY—an account of speculations as to the origin of the earth, and a discussion of the planetary relations of the globe from a geological point of view.

3. PHYSICAL GEOGRAPHY—a description of the parts of the earth,—land, water, air, and of their co-operation in maintaining the life of the planet.

4. DYNAMICAL GEOLOGY—a discussion of the nature and causes of geological changes effected on the surface and within the interior of the earth.

5. MINERALOGY—an account of the physical and chemical characters of minerals, and a systematic description of some of the more important and typical species in the different mineral groups.

6. PETROGRAPHY—a description of the various families of rocks, arranged according to chemical and microscopic analysis, and geological position.

7. STRUCTURAL GEOLOGY—a description of the geological structure and relations of rock-masses to each other, as in

unconformability, overlap, faults, joints, cleavage, metamorphism, &c.

8. **PHYSIOGRAPHICAL GEOLOGY**—an enquiry into the origin of the present outlines of the earth's surface.

9. **PALÆONTOLOGICAL GEOLOGY**—an account of the nature and use of Fossils in Geological enquiry.

10. **STRATIGRAPHICAL GEOLOGY**—the history of the successive geological periods, as based upon the organic remains and lithological features of the various systems and formations of rocks.

The applications of Geology to Engineering, Agriculture, Mining, and other practical pursuits, are described and illustrated.

A small Museum is attached to the Class, for instruction in the character of minerals, and rocks, and in the typical fossils of the different formations. During the Session a class is formed for practical work in the determination of minerals by blowpipe analysis, and in the microscopic examination of minerals and rocks.

Advantage is taken of the peculiar facilities afforded by the position of Edinburgh for the study of Geology, and short excursions are made during the Session to places of geological interest in the vicinity, when the class-lectures are illustrated by demonstrations in the field, and practical instruction is given in geological surveying. At the close of the Session, an excursion extending over a week or ten days, is made for the purpose of examining the geological structure of a more distant district. In this way Arran, part of the Grampian Mountains, the Kincardineshire coast-cliffs, the parallel roads of Glen Roy, the rocks of Balachulish, Glencoe, the east of Fife, and other districts have been already visited by the class.

Text-Books—"Elementary Lessons in Physical Geology" (Macmillan's School Class-book Series); Juke's "School Text-Book of Geology" (A. & C. Black); Rutley's "Mineralogy" (Murby's Science Class-books). More detailed works of reference will be found in the College Reading-Room.

XIV. COMMERCIAL AND POLITICAL ECONOMY AND MERCANTILE LAW.

PROFESSOR HODGSON.

1. ECONOMICS—Production, Exchange, Distribution and Consumption of Wealth : Value : Labour and Capital : Wages, Profits, Interest, Rent : Effects of Division of Labour and Machinery : Money : Credit : Combinations, Strikes, and Lock-outs : Competition, Co-operation, Arbitration : Population : Emigration : Poor-Laws : Taxation : Land Tenures, &c., &c.

2. COMMERCE—History of Ancient, Modern, and especially British Commerce : Home and Foreign Trade : Imports and Exports : Colonies : Emigration and Immigration : Tariffs : Effects of Free Trade and of Restrictions, Bounties, &c. : Money, Credit, Banking : Commercial Products : Manufacturing centres, and commercial emporiums at home and abroad : Loans and Securities, Stock and Share Broking : Exchanges : Insurance : Direct and Indirect Taxation, &c., &c.

3. MERCANTILE LAW—Contracts : Insurance : Banking : Shipping : Bankruptcy : Bills of Exchange &c. : Agency : Partnership : Joint Stock Companies : Patents : Copy Rights : Trade Marks : Comparative references to laws of other Commercial nations : International Law.

XV. THEORY, HISTORY, AND PRACTICE OF EDUCATION.

PROFESSOR S. S. LAURIE.

I.—THEORY, OR PHILOSOPHY OF EDUCATION.

End and Idea of Education. Physiology and Psychology of Man, with special reference to Education. The Processes of Intellectual Growth. The Process of Moral and Religious, or Ethical, Growth. The Formal and the Real in Education. Auxiliaries of the Growth of Mind.

The Educative Process from the Ethical point of view. Analysis of the Educative process from the Ethical point of view into four steps.

II.—METHOD AND ART OF EDUCATION.

First Section or Step of the Educative Process—KNOWLEDGE.
—Materials of Education : these fall generally under the two heads of Real-Naturalistic and Real-Humanistic. Method of acquisition in its general principle. Method in relation to Discipline of Intelligence. Method in relation to True Assimilation by the pupil. Method in relation to periods of Mental Development.

PARTICULAR METHODOLOGY ; or the application of Method to the teaching of the Real-Naturalistic or (Elementary Science) and to the Real-Humanistic respectively. Method of teaching Language, Grammar, Composition, Literature, History, Economics, &c. Method of teaching Arithmetic, Geometry, Geography, &c. Method of teaching the instruments of Knowledge—Reading, and Writing. Religion under this section.

Second Section or Step of the Educative Process—GOODNESS.
—Instruction in Goodness : Training to Goodness. Moral Instruction. Religion in this connection.

Third Section or Step of the Educative Process—THE AUTHORITY OF THE MASTER AND OBEDIENCE TO AUTHORITY.
—Conditions of a True and Legitimate Authority. Recognition of Authority by the Pupil. Religion in this connection.

Fourth Section or Step of the Educative Process.—EXERTION OF WILL.—Nature of the Act ; Difficulties in the way of Right-Willing ; Relation of Right-Willing to Motives ; Training to Right-Willing ; Consideration of Motives (*a*) The Attractive, (*b*) The Coercive ; Punishments, &c. Religion in this connection.

Music : Drawing : and the Æsthetic in Education.

ORGANIZATION OF SCHOOLS.

Kindergarten Schools ; Infant Schools ; Primary Schools ; Secondary Schools ; University Schools.

Class-manipulation and subsidiary expedients in teaching.

School-Books, Apparatus, Buildings, &c.

III.—HISTORY OF EDUCATION, OR COMPARATIVE EDUCATION.

Only select portions of this course can be dealt with in any one Session.

1. Education in China. 2. Education of the Hindu Races, 3. The Education of the Ancient Persians. 4. A brief Sketch of Education among the Semitic Races of the Mesopotamian Basin and among the Egyptians. 5. Education among the Hellenic Races. The educational views of Plato and Aristotle. 6. Education among the Romans. 7. Analysis and exposition of the Institutions of Quintilian. 8. Survey of the History of Education from Constantine to the time of the Reformation. 9. Erasmus and Colet. 10. Luther, Melancthon, and John Sturm. 11. Roger Ascham: Exposition of "The Scholemaster." 12. Analysis of Ratichius. 13. of Comenius; Exposition of the *Didactica Magna*. *Realism and Utility as opposed to Humanism and Culture*. 14. Milton's Educational views. 15. Analysis and exposition of John Locke's "Thoughts on Education." 16. Rousseau, Basedow, and Campe. 17. Dr Andrew Bell and Joseph Lancaster. 18. Analysis and exposition of Pestalozzi. 19. Jacotot. 20. Fröbel. 21. Jean Paul Richter. 22. Diesterweg. 23. Dr Arnold. 24. Herbert Spencer and contemporary Realism. 25. Sketch of History of Education in Scotland, and its present condition and prospects. 26. Organization and aims of Education in Germany, and a Sketch of the present state of Education in England, France, and the United States.

N.B.—*Four Lectures weekly on Theory and Methodology exclusively till the Christmas holidays. Thereafter, two of the four weekly Lectures will be devoted to History. Three written Examinations will be held during the Session, and Three Essays on educational questions called for. Facilities are given for the Visitation of Schools.*

Text-Book.—The Professor's "Handbook to Lectures."

XVI. HISTORY.

See under Faculty of Law.

Faculty of Divinity.

CURRICULUM FOR THE MINISTRY IN THE CHURCH OF SCOTLAND.

The Laws of the Church of Scotland require that every Theological Student, who desires to qualify himself for the Ministry, should attend the Class of *Divinity* either during *three full and regular Sessions*, or during *two regular and three partial Sessions*;—and also that he should regularly attend during two Sessions each of the Classes of *Hebrew*, *Ecclesiastical History*, and *Biblical Criticism*.

Entrance Examinations.

(1.) Students, before enrolment *for the first year* of their curriculum with a view to the Ministry in the Church of Scotland, must produce to the Professor of Divinity Certificates of their having satisfactorily undergone an Examination in the subjects embraced in the *Curriculum of Arts*, and also in the Elements of Hebrew Grammar. By Act IX. of General Assembly 1872, it is ordained that this Examination shall be conducted, at each of the four Scottish Universities shortly before the commencement of every Session, by four Examining Committees, consisting of members elected by the adjoining Synods, with Conveners nominated by the General Assembly. *The Convener of the Committee for the University of Edinburgh is the Rev. Thomas Gordon, D.D., Minister of Newbattle, by Dalkeith.* The time of the Committee's meeting and the prescribed subjects of Examination will be timeously advertised in the *Missionary Record* of the Church of Scotland.

(2.) Students, before enrolment at the beginning of *every Session after the first* of their course in Divinity, must produce certificates of their having satisfactorily undergone the Examinations prescribed by their respective Presbyteries. For subjects of Examination prescribed by the *Presbytery of Edinburgh*, see *Appendix*.

Discourses.

Every Student of divinity is required during his curriculum to deliver with approbation *six* Discourses upon subjects prescribed by the Professor of Divinity, viz., a Homily, a Latin Exegesis, a Lecture, a popular Sermon, a Hebrew Exercise on a passage of the Old Testament, and a Critical Discourse on a passage of the New Testament.

The following Regulations have been made by the Faculty of Theology in regard to the delivery of these Discourses. (1.) Students of the *first* year shall give in their *Homily* to the Professor of Divinity not later than 1st February : (2.) Students of the *second* year shall give in their *Latin Exegesis* not later than the 24th December, and shall be prepared to deliver their *Lecture* not later than the 3d January ; (3.) Students of the *third* year shall give in their *Hebrew Exercise* and their *Greek Critical Discourse* not later than the 24th December, and shall be prepared to deliver their *Popular Sermon* not later than the 1st of February.

Attendance at Foreign Universities.

The General Assembly of 1868, with the consent of a majority of Presbyteries, enacted and ordained :—(1.) That all candidates for the ministry shall attend during at least *two sessions* the Theological Classes at one or more of the Universities of Scotland, and shall deliver, with approbation, the Six Trial Discourses required by the Acts of the General Assembly ; and (2.) That any Student who wishes to prosecute the remainder of his Theological Curriculum at any Protestant University or Universities not within the bounds of this Church, shall, before repairing thither, undergo satisfactory examination by the Presbytery with which he is connected, and shall, moreover, satisfy the same Presbytery in regard both to the Classes which he proposes to attend, and to the proficiency he has acquired in the language used in the Foreign University in which he intends to study.

I. DIVINITY.

REV. PROFESSOR FLINT, D.D., LL.D.

The course of study in this class extends over three Sessions. The Subjects of the Lectures during Session 1878-79 will be :—

1. Sin. 2. The Person and Work of Christ. 3. The Work of the Holy Spirit. 4. The Christian Life. 5. The Church. 6. The Miracles of Christ. 7. The Internal Evidences of Christianity.

Lectures on these subjects will be delivered on three days in each week. Fridays will be devoted to the hearing of the Students' Discourses and Exercises. One day in each week will be devoted to examination on "Antitheistic Theories," by the Professor; "The Atonement," by Dr Crawford; or passages in the Hebrew and Greek Scriptures, illustrative of the subjects treated of in the lectures.

II. DIVINITY AND ECCLESIASTICAL HISTORY.

REV. PROFESSOR TAYLOR, D.D.

1. *Lectures*—Mondays and Tuesdays, on the period A.D. 117-451; and, Wednesdays, on the Reformation in Scotland to the close of the sixteenth century.

2. *Text-Book*—Thursdays, Kurtz's "History of the Christian Church." First Section, Second Period; and Second Section, First Period.

3. *Greek Text*—Fridays, "First Oration of St Athanasius against the Arians," Bright's edition.

III. BIBLICAL CRITICISM AND BIBLICAL ANTIQUITIES.

REV. PROFESSOR CHARTERIS, D.D.

Subjects of Course for Session 1878-79 :—Pastoral Epistles; MSS. and editions of New Testament; History of the Canon of New Testament.

Text-Books.—"Canonicity," by the Professor. Scrivener's "Introduction to Textual Criticism."

One day in each week will be devoted to the public reading of the Greek Testament by the students, and one day to the delivery of short expositions of selected passages of Scripture. These expositions will be delivered without further help from manuscript than a few jottings may afford; the object being to train students in public speaking as expositors.

There will be three or four written examinations which all regular Students are required to attend; and frequent oral examinations in which they are required to take part.

Advanced Class.—Two days a week—Tuesday and Thursday. In this class will be taken up questions of Textual Criticism; of Special Importance in Testimonies to the Canon; of Introduction to particular books of New Testament, which it is not possible to discuss in the ordinary class.

IV. HEBREW.

REV. PROFESSOR LISTON.

Junior Class.

Grammar (Tregelles' "Heads of Hebrew Grammar"); first six or eight Chapters of Genesis; and first eight or ten Psalms.

Senior Class.

Grammar. From the Thirty-first to the Sixtieth Psalm, inclusive; first half of the Book of Joshua, and from chapter five to chapter ten inclusive of Isaiah.

HINDUSTANI.

The books used for beginners will be Forbes's "Hindustani Grammar" and "Hindustani Manual;" for more advanced pupils, Forbes's edition of the "Bāgh o Bahār," or "Araish-i-Mahfil."

Faculty of Law.

ORDER OF STUDY.

*Extract from Minutes of a Meeting of the Faculty,
20th February 1863.*

The Faculty having taken into consideration that the Course of Study in Law extends over three Academical years, and that the natural order in which the various branches of the Course ought to be taken up is often departed from and sometimes altogether inverted—recommend Students, whether intending to graduate in Law or not, to attend the Lectures in the following order, viz. :—

First year—Civil Law ;
Second year—Scotch Law ;
Third year—Conveyancing ;

and to attend the Lectures on Public Law, Constitutional Law and Legal History, and Medical Jurisprudence, during the Second and Third years of study, in such order as may be most convenient to each individual Student.

I. CIVIL LAW.

PROFESSOR MUIRHEAD.

The Course of Lectures on Civil Law extends over a Winter and Summer Term, covered by one entrance fee of £5, 5s. The Winter Lectures begin in November, and continue until the end of March ; the Summer Lectures are given in May, June, and July.

The subject-matter of the Course is the external and internal history and general and special doctrines of the Law of Rome, as developed in the Institutes of Gaius and Justinian, supplemented by the other ante-Justinianian and Justinianian texts.

During the Session 1878-79, the Professor proposes to lecture according to the order of Justinian's Institutes.

The Lectures will be equally adapted for Students intending to enter the legal profession in Scotland or England, or qualifying for service in India or the Colonies.

Text-Books.—The Institutes of Gaius and Justinian. The edition of Gaius recommended is that by Krueger and Studemund, and of the Corpus Juris Civilis, that by Mommsen and Krueger.

For preliminary reading, intending Students may consult Ortolan's "History of Roman Law," by Pritchard and Nasmith; Poste's "Gaius;" and Sandars' "Justinian."

II. LAW OF SCOTLAND.

PROFESSOR MACPHERSON.

Winter Session.

The Lectures have special reference to the writings of Mr Erskine, and Students are strongly recommended to make themselves familiar either with his "Principles," 14th Edition, by W. Guthrie, Esq., 1870, or his "Institutes," edition by J. Badenoch Nicolson, Esq., 1871.

1. Sketch of the Literature of the Law of Scotland—the sources of the Law—the interpretation of Statutes—jurisdiction—judicial machinery.

2. Personal Relations—marriage and the modes of proving it—patrimonial effects of Marriage—rights of husband and wife—dissolution of Marriage—divorce—tutors and curators—minors—insane—idiots—parent and child—master and servant.

3. On the Origin of Property—its acquisition—possession—heritable and moveable—constitution of heritable rights—the charter and its clauses—investiture—mutual rights of superior and vassal—law of landlord and tenant—transmission of feus—redeemable rights—servitudes—entails, prescriptions—questions of double title.

4. Obligations and Contracts—general requisites to, and modes of, their construction—partnership—joint-stock companies—factory and agency—sale—stoppage *in transitu*—commodate—pledge—carriers—shipping—insurance—bills of exchange—cautionary—extinction of obligations—diligence—bankruptcy.

5. Succession—heritable—moveable.

6. Parochial Law—clergy, teinds, manses, and glebes—churches—schoolmasters—poor.

7. Law of Evidence.

8. Procedure.

9. Criminal Law.

Summer Session.

The Lectures on Criminal Law are delivered during the Summer Session.

Lectures will also be delivered during Summer 1878, on Commodate—pledge—carriage—shipping—insurance—extinction of obligations—bankruptcy and evidence.

III. CONVEYANCING.

PROFESSOR TYTLER.

The course of Lectures delivered from the Chair of Conveyancing will embrace the following subjects :—

BRANCH FIRST—*Deeds in General.*

1. Capacity of the parties to contract, and lawfulness of the subject matter. 2. Requisites as to external form, description of the parties, integrity of the text, and the solemnities of execution and authentication. 3. Deeds privileged as regards these solemnities. 4. Necessity of delivery and acceptance. 5. Freedom of consent essential to give validity to Deeds, and operation of error, fraud, force, and fear as grounds of reduction. 6. Effect of *homologation* and *rei interventus* in validating Deeds imperfect or defective in themselves. 7. The Stamp Laws in their relation to conveyancing. 8. General Structure of, and clause common to all Deeds.

BRANCH SECOND—*Deeds relating to Moveable Rights.*

1. The personal bond and other personal obligations, transmissions thereof *inter vivos*, and discharges. 2. Personal contracts (exclusive of the contract of Marriage). 3. Deeds relating to corporeal moveables, including maritime writs. 4. Factories and powers of attorney. 5. Bills and promissory-notes.

BRANCH THIRD—*Deeds relating to Heritable Rights.*

1. Sketch of the feudal system and its bearing on the existing state of heritable rights in Scotland. 2. The writs constituting a feudal estate, and the respective rights of superior and vassal. 3. The writs used in the voluntary transmission, *inter vivos*, of such estate, and of burgage lands. Under this head will also be considered the missive of sale and articles of roup, together with what constitutes a *prescriptive* progress of titles, and a full search of incumbrances. 4. The judicial transmission of heritage. 5. Heritable securities, their constitution, transmission, and extinction. 6. Leases.

BRANCH FOURTH—*Family Settlements and relative Deeds.*

1. Destinations. 2. The completion of titles by the heir or successor to heritable estate. 3. The contract of marriage and bond of provision, as affecting moveable or heritable estate or both. 4. Testamentary Deeds, applicable to either or both classes of estate. 5. The completion of titles by the executor to moveable estate. 6. The entail and disentail, and relative Deeds.

In each of these Branches, the alterations made by recent Acts of Parliament in the structure or effect of any of the deeds or writs treated of, will be pointed out, and the old and new forms compared.

IV.—PUBLIC LAW.

PROFESSOR LORIMER.

The Course of Lectures delivered from the Chair of Public Law and the Law of Nature and Nations, is divided into two branches :—

I. NATURAL LAW, the Philosophy of Law, or the principles of the science of jurisprudence as a whole.

The object of this branch of the course is to exhibit jurisprudence in the light of a science resting, in all its departments, on nature, as opposed to a mere system of arbitrary or empirical rules. The Law of Nature is consequently investigated, not as a primitive system of positive law existing in a particular condition of society real or imaginary, but as the necessary groundwork of society itself, and the unchangeable element in all systems and branches of Positive Law.

The relation between Natural Law thus understood, and the *jus naturale* and *jus gentium* of the Romans, having been examined, and the more celebrated definitions and divisions of the science, ancient and modern, briefly enunciated, the general scheme of the whole course is explained, and the first branch subdivided thus :—

a. Sources of natural law, or of general jurisprudence = ultimate sources of positive law, or of special jurisprudence.

β. Objects of natural law, or of general jurisprudence = ultimate objects of positive law, or of special jurisprudence.

γ. Proximate sources of positive law, or of special jurisprudence viewed as a whole.

δ. Proximate objects of positive law, or objects of the different branches of positive Law.

2. INTERNATIONAL LAW, or the *jus inter gentes*.

1st, Sketch of the History of International Law. (a.) The Oriental or Ante-Classical Period. (b.) The Classical Period (c.) The Maritime communities of the Mediterranean in the Middle Ages. (d.) The general maritime codes. (e.) The maritime jurisdiction of England. (f.) The North of Europe and the Hanseatic League. (g.) The rise of scientific jurisprudence : the Scholastic Period ; the Spanish period ; the Dutch and German Period, down to the Peace of Westphalia.

2d, *Public International Law*.

A. Independent States in their peaceful relations. (a.) Recognition ; or what is a State internationally considered? (b.) The different kinds of States. (c.) The property of the State. (d.) Intervention. (e.) The Balance of power. (f.) Legation. (g.) The Diplomatic Profession. (h.) The Consulate. (i.) Negotiation. (j.) Treaties. (k.) Professional literature of diplomacy.

B. Independent States in their warlike relations. (a.) Tentative war by means of embargo, reprisals, &c. (b.) The laws of war on land. (c.) Laws of war at sea. (d.) Blockade. (e.) Neutrality.

3d, *Private International Law*, or the rules in accordance with which the municipal laws of one State are recognised within the territories of another.

The abstract principles evolved in the first branch of the course are continually kept in view, and exhibited in the con-

crete in the subsequent branches. In discussing the doctrines of Public International Law, the aim of the Professor is twofold; 1st, To illustrate to Law Students in general the dependence of a special branch of jurisprudence on the facts of nature, and on the relations necessary to the existence and development of organic social life; and 2d, To communicate information on the subject of positive International Law, both public and private.

The Course for Session 1877-8 will commence on October 31st. The Lectures will be delivered *five* days a-week, and will terminate simultaneously with the other Classes in the Faculty of Law.

Text-Books.—*Natural Law*—Lorimer's Institutes of Law. Ahrens's Cours de Droit Naturel. Trendelenburg's Naturrecht auf dem Grunde der Ethik. Krause's Rechts philosophie (edited by Röder), and Röder's Naturrecht.

History.—Wheaton's History of the Law of Nations. Pardessus's Us et Coutumes de la Mer. Reddie's Historical View of the Law of Maritime Commerce. Lindsay's History of Merchant Shipping.

Public International Law.—Bluntschli's Moderne Völkerrecht (of which there is a French translation entitled Droit International Codifié). Heffter's Droit International Public. Lawrence's Commentaire sur les Éléments du Droit International. Wheaton's Elements of International Law, by Lawrence or Dana. Phillimore's International Law.

Private International Law.—Savigny's Private International Law, by Guthrie. Bar's Internationale Privat-und Strafrecht. Westlake's Private International Law.

V. HISTORY.

PROFESSOR MACKAY.

The Lectures in the Summer Session 1878 will be given on four days a week at 4 P.M., commencing on Thursday, 16th May.

Their subject will be—The History of England, with special reference to Constitutional Law.

For History students are recommended to consult "The Annals of England." Oxford and London, Parker, 1876. Reference will be made to the principal authorities for the different periods in the course of the lectures.

For Constitutional Law students are recommended to consult Stubbs' English Constitutional History for the period to Henry II.'s reign ; Hallam's Middle Ages, Chap. viii. ; Hallam's Constitutional History of England, from the reign of Henry VII. to George II. ; Sir Thomas Erskine May's Constitutional History, for the period from the accession of George III. ; The English Constitution by Walter Bagehot ; Guizot's Lectures on Representative Government ; R. Gneist's Self-Government in England, 3d Edition, Berlin, 1871 ; and Geschichte und heutige Gestalt der Aemter und des Verwaltungsrechts in England, 2d Edition, Berlin, 1866.

VI. MEDICAL JURISPRUDENCE.

PROFESSOR MACLAGAN.

Part I.—Medical Jurisprudence.

MEDICAL EVIDENCE GENERALLY.

1. Documentary—

Reports and written opinions.

2. Oral—

Common witnesses. Experts.

3. Experimental—

Examination of the living ; identity ; state of body ; state of mind. Examination of the dead ; real or apparent death ; identity ; cause of death ; exhumations, autopsies. Examination of localities. Examinations of productions.

MEDICAL EVIDENCE SPECIALLY.

Questions affecting Health or Life.

1. Assaults and Homicides—

Wounds and other external injuries ; blood-stains. Suffocation, hanging, and strangling ; drowning. Starvation. Heat and cold. Poisons.

2. Suicide.

3. Offences against Chastity—

Rape, &c. ; concealment of pregnancy ; criminal abortion ; infanticide.

4. Malpraxis and Neglect of Duty.

Questions affecting Property.

Nuisances. Arson. Forgery. Coining.

Questions affecting Civil Rights or Social States.

Marriage and Divorce. Impotence and sterility. Live birth; Inheritance. Legitimacy. Survivorship. Insanity. Congenital defects. Exemption from public duties. Feigned diseases.

Part II.—Medical Police.

HYGIENE OF INDIVIDUALS.

Man—

Age and development. Sex. Constitution.

External Agencies—

Food and Drink. Air. Clothing. Ablutions. Exercise.

Habits and Modes of Life—

Temperance. Celibacy and Marriage. Professions: learned mechanical, criminal. Punishments. Prostitution.

Duration and Expectancy of Life—

Life Assurance.

HYGIENE OF COMMUNITIES.

Duties of Medical Officers of Health.

Climate—

Causing disease; remedying disease.

Towns, Camps, and Private Habitations—

Topographical position; water supply; heating and lighting; ventilation; drainage and sewerage.

Public Buildings—

Schools; churches; hospitals; theatres; prisons.

Cemeteries. Quarantine Establishments. Epidemics; Endemics.

Text-Books.—Taylor's "Medical Jurisprudence," Guy's "Principles of Forensic Medicine," Wharton and Stillé's "Treatise on Medical Jurisprudence," Parke's "Practical Hygiene," Wilson's "Handbook of Hygiene," Michael, Corfield, and Wanklyn—"Manual of Public Health," edited by E. Hart.

Faculty of Medicine.*

I. ANATOMY.

PROFESSOR TURNER.

Winter Courses.

1. LECTURES ON ANATOMY, at 1 P.M.—It is intended in this Course of Lectures to bring before the Student, in a systematic manner, the structure of the Human Body. The different systems and organs will be described, not only in the more obvious arrangements and relations of parts which can be examined by the naked eye, but in their more minute or microscopic structure. The Course includes, therefore, both Textural or General Anatomy and Descriptive Anatomy. The Lectures are illustrated by recent dissections, by wet and dry preparations, by a large collection of Osteological specimens, and by drawings and diagrams. Structures too minute to be recognised by the naked eye are demonstrated under the Microscope.

To assist the Junior Members of the Lecture Class to acquire a knowledge of Osteology, Tutorial Demonstrations on the bones will be given during the earlier months of the Session without additional fee.

Text-Books—The Professor's "Introduction to Human Anatomy," with Gray's "Anatomy," Wilson's "Anatomy," or Quain's "Elements of Anatomy."

Fee	£4 4 0
Second Course	3 3 0
Third Course	Free.
Perpetual Ticket	6 6 0

2. ANATOMICAL DEMONSTRATIONS, at 4 P.M.—In this Course, which is conducted in the Theatre, the structure of the human body is displayed and demonstrated topographically, from the surface inwards. The Professor and the Demonstrator, Dr. D. J. Cunningham, will jointly conduct the Course.

Fee	£2 2 0
When taken out along with Practical Anatomy	1 1 0
Third Course	Free.

* Classes arranged as in the order of the departments enumerated in the Statutes relative to Degrees in Medicine.

3. PRACTICAL ANATOMY, under the superintendence of the Professor, aided by the Demonstrators, D. J. Cunningham, M.D., Johnson Symington, M.B., and by other assistants.

This Course will commence on October 1. The Dissecting-rooms are open from 9 A.M. to 4 P.M., and on Saturdays from 9 to noon.

Text-Books.—"Demonstrations of Anatomy," by Ellis, or Heath's "Practical Anatomy," or Holden's "Manual of the Dissection of the Human Body," and Cleland's "Directory to the Dissection of the Human Body."

Fee £3 3 0

No Perpetual Ticket for this Course.

Summer Courses.

1. PRACTICAL ANATOMY, as in Winter. The Course will commence on Wednesday, 1st May. The Rooms are open from 9 A.M. to 5 P.M.; on Saturdays from 9 A.M. to noon.

Fee £2 2 0

2. ANATOMICAL DEMONSTRATIONS in the Theatre will commence on Monday 6th May, and will be given partly by the Professor, and partly by the Demonstrator, Dr. D. J. Cunningham. This Course is open, without additional Fee, to those engaged in Practical Anatomy during the Summer, and will consist of demonstrations on some special departments of Anatomy.

II. CHEMISTRY.

PROFESSOR CRUM BROWN.

I. LECTURES ON CHEMISTRY—

In the Lectures the general laws of chemical action are explained and illustrated.

The non-metallic elements and their compounds are described in detail. The metals and the different series of metallic salts are considered more generally, details being given in the case of the more important substances.

The principles upon which the classification of organic substances is based are explained, and the properties of the chief groups illustrated in detail.

Tutorial Classes, meeting once a week, are conducted by the Assistants.

Text-Books.—"Bloxam's Chemistry, Inorganic and Organic."

An advanced Class is held in Summer by the Professor for Students specially devoting themselves to Chemistry.

2. LABORATORY.—The Laboratory is open for the reception of students who desire to study Analytical Chemistry, or to undertake chemical investigations. The Fee for the Laboratory is ten guineas for the Winter Session, and six guineas for the Summer Session. The instruction in the Laboratory is given by the Assistant under the superintendence of the Professor.* [For details in reference to the HOPE PRIZE, and Hope Prize Scholarship, which are attached to the Laboratory, and the ROBERT WILSON MEMORIAL PRIZE, which is attached to the Class of Chemistry, see under *University Prizes*, in a subsequent part of the Calendar.]

3. PRACTICAL CLASSES.—The instruction in these is chiefly devoted to practice in Qualitative Analysis, with special reference to its applications to Medicine and Pharmacy. They are taught by the Demonstrator, under the superintendence of the Professor. The Fee is three guineas.

III. MATERIA MEDICA.

PROFESSOR THOMAS R. FRASER.

Materia Medica comprises the subjects of general therapeutics, special therapeutics, pharmacy, and dietetics; and the remedial applications of electricity and galvanism, heat and cold, &c. Instruction in Materia Medica is given in (A) a course of 100 Lectures during the Winter Session, and in (B) Practical Classes during the Summer Session, and of equivalent duration during the Winter Session.

A.—LECTURES ON MATERIA MEDICA AND THERAPEUTICS.—This course includes the following among other *Special Topics*.—1. The natural history, pharmacy, physiological action, therapeutical uses, and modes of administering remedies, ordi-

* As the accommodation is limited, Students intending to work in the Laboratory should make early application for places to prevent disappointment.

narily so called. Such remedies consist of (a) mineral substances; (b) vegetable substances; (c) animal substances. 2. Food and drink, considered generally and in reference to disease. 3. Electricity and galvanism, with a description of the apparatus required for their application in disease. 4. Heat and cold. 5. Climate.

B.—PRACTICAL CLASSES.—In these classes, *practical* instruction will be given in the following subjects embraced in *Materia Medica*, but which cannot satisfactorily be taught in a course of lectures:—1. Pharmacognosy, or the recognition of drugs by their physical and chemical characters, and the detection of adulterations. 2. Pharmacy, or the processes for obtaining the pharmaceutical preparations of drugs. 3. Dispensing, or the making up of medicines in forms suitable for administration in disease.

It is recommended that the practical class be attended before the course of lectures on *Materia Medica* and *Therapeutics*. The fee is Three Guineas. Practical classes will be taught during the Summer Session, when they will meet daily at such hours as are found most convenient. A winter class will also be formed if a sufficient number of names are entered.

IV. INSTITUTES OF MEDICINE OR PHYSIOLOGY.

PROFESSOR RUTHERFORD.

This Course, consisting of 100 Lectures, is held in the Winter. It includes—

1. An account of the Structure, Composition, and Functions of the Tissues of the Body.

2. An account of the Nutrition of the Body, including Circulation, Respiration, Alimentation, Nutrition of the Tissues, Excretion, together with the minute structure of the organs concerned.

3. An account of the Energies of the body, including Sound Electricity, Heat, Mechanical and Nervous Energies, together with the Special Physiology of the Nervous System and organs of Sense.

4. Reproduction.

PRACTICAL PHYSIOLOGY.

This Course is divided into two sections—

1. *Practical Histology*, in which every Student prepares examines, and preserves for himself most of the tissues and organs of the body. Each student is provided with a Hartnack's microscope, and all re-agents.

2. *Practical Chemical Physiology*, in which every student performs the analysis of the Urine in its normal and abnormal conditions, with special reference to clinical work, and such analyses of Blood, Bile, Milk, etc., as are possible in a class, together with experiments on Digestion.

The student has also an opportunity of practising the use of the Ophthalmoscope, Laryngoscope, and various other physiological instruments.

This course is given, both in the Winter and Summer Session. In Winter, it begins early in November, and meets thrice a week. In Summer it begins early in May and meets daily. In each session the course consists of about Sixty Lessons.

PRIVATE PHYSIOLOGICAL RESEARCH.

The Physiological Laboratory, containing all the necessary appliances, is open daily for the prosecution of private Physiological Research, under the direction of the Professor and the Assistant.

V. PRACTICE OF PHYSIC.

PROFESSOR GRAINGER STEWART.

This Course comprises—

I. An account of the nature, and more particularly of the clinical characteristics and the treatment of the different types of morbid action.

II. An account of the morbid anatomy, clinical history, causes, diagnosis, prognosis, and treatment of the diseases of the different systems and organs.

It is intended that each course shall be complete; but that, while the general principles (included in Part I.) shall be

fully discussed each session, the diseases of individual systems, (included in Part II.,) shall be taken up in different order year by year, and certain systems selected for more minute consideration.

The course is illustrated by specimens from the Anatomical Museum of the University, and from the Professor's private collection, as well as by numerous drawings, diagrams, and charts.

A Tutorial Class for oral examination will be conducted by the assistant.

VI. SURGERY.

PROFESSOR SPENCE.

The Course comprises :—

I. THE CONSIDERATION OF THE GENERAL PRINCIPLES OF SURGERY.

Outline of Different Forms of Morbid Action in reference to Surgical Diseases.

II. PRACTICE OF SURGERY.

External Injuries—Wounds, Fractures, and Dislocations.

Diseases of Bones and Joints.

Diseases and Injuries of Blood Vessels. Special Aneurisms, and the Operations for Ligature of the different Arteries.

Amputations and Excisions of Joints.

Injuries of Head, and their consequences ; Operation of Trepan.

Tumours of Face and Neck.

Injuries and Diseases of Air Passages ; Tracheotomy, and Laryngotomy.

Injuries and Diseases of Pharynx and Œsophagus ; Removal of Foreign Bodies.

Surgery of Mouth and Face.

Excision of Upper and Lower Jaws.

Thorax : Injuries—Fracture of Ribs—Wounds—Emphysema—Pneumothorax—Hemato-thorax—Hydrothorax and Empyema. Paracentesis thoracis.

Wounds of the Abdomen—Hernia—Special Herniæ, and their treatment.

Injuries and Diseases of the Genito-Urinary System, and operations required for their treatment.

Diseases of the Rectum.

In the Session 1877-78 it is intended to devote the chief part

of the Lectures to the Practical Division of the Course, commencing with Hæmostatics ; Wounds and Injuries.

During the Session, besides the special Competitive examinations, there will be occasional Oral Examinations of the Class and practical instructions and examinations in Operative Surgery.

The system of teaching by oral and practical examinations will be continued and more fully developed.

Text-Book.—The Professor's "Lectures on Surgery."

Tutorial Classes for the practice of Bandaging and Surgical appliances, by the Pupils of the Class, are conducted by a Demonstrator.

During the Summer Session a Class for the practice of Operative Surgery, under the personal superintendence of the Professor, meets on Mondays, Tuesdays, Thursdays, and Fridays. Fee £2, 2s.

VII. MIDWIFERY AND THE DISEASES OF WOMEN AND CHILDREN.

PROFESSOR SIMPSON.

The Course of Instruction comprises Lectures on—

I. The Anatomy and Physiology of the Female Organs of Reproduction.

II. The Physiology, Pathology, and Therapeutics of Pregnancy.

III. Parturition—Natural (Eutocia), and Morbid (Dystocia).

IV. The Hygiene, Pathology, and Therapeutics of the Puerperal State.

V. The Hygiene, Pathology, and Therapeutics of Infancy and Childhood.

VI. The Special Pathology and Therapeutics of the Female Organs of Reproduction.

One day in each week will be devoted to the Gynecological Section of the Course ; and the Diseases of Women may be studied clinically in the Royal Infirmary in the Buchanan Medical Ward which the Managers of that Institution have placed at Professor Simpson's disposal for this purpose.

Midwifery may be studied clinically in the Royal Maternity,

of which the Professor is, *ex officio*, one of the Medical Officers, and where he is in attendance during the first three months of the Winter Session.

Weekly Oral Examinations and Demonstrations in Obstetric Operations will be conducted on Saturdays in the Classroom at the usual Lecture hour, 11 o'clock, a.m., by the Professor, assisted by the Class Tutor; and, in the latter part of the Session, Tutorial classes will be formed for Practical Instruction in the use of Obstetric and Gynecological Instruments and Appliances.

A Prize will be given for the best answers at the Oral Examinations; and Medals and Certificates of Merit will be awarded for answers at two Written Examinations held during the Session.

SUMMER SESSION.

A Course of Lectures on Obstetric and Gynecological Operations, with Demonstrations of the use of Instruments and Appliances, will be conducted on Tuesdays and Fridays, at 10 A.M.

The members of the Class will have an opportunity of practising operations on the recent subject, and on lay figures; and Tutorial classes will be formed for special training on the other days of the week in the investigation and treatment of Female Diseases.

VIII. GENERAL PATHOLOGY, INCLUDING MORBID ANATOMY.

PROFESSOR SANDERS.

This Course embraces—

1. Etiology = the causes of disease.
2. Morbid Anatomy and Histology = the structural changes, and Pathological Chemistry = the changes in composition, which occur in disease. (Malformations will be included under Morbid Anatomy).
3. Pathological Physiology = the alterations of function in disease; including Symptomatology = the general signs and symptoms of disease.

These different departments will be treated in the order con-

sidered most convenient, and always with reference to general laws or principles. Greater extension will be given to No. 2, Morbid Anatomy, General and Special, being made the basis of Pathological instruction.

Part of the Course will consist of the demonstration of recent morbid specimens, the minute structures being displayed under the microscope. Preserved specimens as well as a selection from the morbid preparations in the University Anatomical Museum, will be exhibited and explained. The Lectures will be illustrated by plates, diagrams, &c.,

Text-Books.—Green's Introduction to Pathology and Morbid Anatomy; Payne's edition of Jones and Sieveking's Pathological Anatomy; or Wilks and Moxon's Lectures on Pathological Anatomy.

PRACTICAL PATHOLOGY.

Classes for Practical Instruction in MORBID ANATOMY and PATHOLOGICAL HISTOLOGY are conducted in the Pathological Laboratory—microscopes and other necessary apparatus being supplied. The Course consists of—1st. Naked Eye Demonstration; 2d. Histological investigation and preparation of Morbid Structures and Organs.

For the Winter Course, the class meets three times a week, from the beginning of November till the end of March. For the Summer Course, five times a week, from the beginning of May till the end of July.

The Laboratory is also open daily from 10 A.M. till 4 P.M. for Pathological Research, under the Superintendence of Professor Sanders, assisted by D. J. Hamilton, F.R.C.S.E.

IX. CLINICAL MEDICINE.

PROFESSORS MACLAGAN, SANDERS, GRAINGER STEWART, AND T. R. FRASER, WITH PROFESSOR SIMPSON FOR DISEASES OF WOMEN.

The course of Clinical Medicine, consisting of Clinical Lectures and Instruction in the University wards of the Royal

Infirmary, is conducted conjointly by the Clinical Professors—two Professors being on duty during the Winter Session, two during the Summer, the Professor of Midwifery giving lectures and demonstrations on Gynecological Medicine on certain days, both during Summer and Winter.

The Course consists of :—1. Practical Instruction on five days a week at the bedside. 2. Critical Expositions and Discussions of illustrative, important, or difficult cases in the lecture-room on two days a week.

Every facility is afforded to members of the Class to act as Clinical Clerks, and those are preferred who have already had a course of tutorial instruction. At the close of each Summer Session, two gentlemen, who have at some time been members of the Class, are appointed to be Resident Clinical Physicians during the following Winter and Summer Sessions.

Students are advised to begin their Clinical Studies with the Summer Session, and to continue them through at least the following Winter Session.

For notice of the Wightman Prize see University Prizes.

CLINICAL TUTORIAL CLASS.

Practical instruction in the Physical Methods of Examination is given to Classes, limited in number, by the University Clinical Tutor, in connection with the course of Clinical Medicine.

Junior Students are strongly advised to take this course of instruction at the beginning of their Clinical Studies.

Summer Session, 1878.

Professors Sanders, T. R. Fraser, and Simpson.

X. CLINICAL SURGERY.

PROFESSOR ANNANDALE.

The objects of this Course are to teach the diagnosis of Surgical diseases and injuries, by pointing out their distinctive characters in the living body ; and to illustrate the principles of treatment, by shewing their application in practice. With these views, the patients whose cases come under consideration are brought before the Students in the theatre of the Hospital,

when, with due regard to their feelings and interests, the opinions entertained as to the seat and nature of the malady are freely expressed, and the means of remedy deemed requisite are administered, either at the time or upon some other more convenient occasion. In addition to the lectures, the Clinical Surgical Wards in the Hospital are daily visited, and the cases of both in-patients and out-patients are demonstrated so as further to illustrate the practice of surgery and the progress of patients under treatment. Practical instruction in connection with the examination of patients, the observation of symptoms, the treatment of surgical emergencies, the uses of instruments, and other surgical details, is given by a Tutor attached to the Chair in small classes, which are free to all Students attending the Course.

Text-Books. — Erichsen, Spence, or Bryant's works on Surgery.

XI. MEDICAL JURISPRUDENCE.

PROFESSOR MACLAGAN.

[See "Faculty of Law," page 96.]

XII.—BOTANY.

PROFESSOR BALFOUR.

The Course of Botany is a general one, open to all Students, and consists of—

1. Vegetable Organography, or an account of the tissues and organs of plants, illustrated by specimens, drawings, and microscopical dissections.
2. Vegetable Physiology, or an account of the functions of plants, illustrated by the microscope and experiments on living plants.
3. Classification of plants, or an account of the different modes of arrangement, with illustrations of the Classes and Orders, Genera and Species, of the Vegetable Kingdom, by means of living specimens and of plants from the University Herbarium.

4. Geographical Botany, or an account of the distribution of plants over the globe.

5. Palæontological Botany, or a description of fossil plants, and of their relation to each other and to the present Flora, illustrated by specimens from the Museum.

The following are the arrangements for the Course :—

1. Lectures are given at the Royal Botanic Garden every Monday, Tuesday, Wednesday, Thursday, and Friday, at 8 A.M., from the beginning of May till the end of July.

2. Competitive Examinations for Honours are conducted in the Upper Library Hall of the College. Certificates in the First and Second Class of Honours are given, both in the Senior and Junior Divisions of the Class, to those who acquit themselves in a satisfactory manner at these Competitive Examinations which are conducted by means of printed questions and written answers, without any aid from books or notes.

3. Besides the Lectures, Examinations and Demonstrations are given on the Natural Orders in the Botanic Garden.

4. Classes for instruction in Vegetable Histology and Practical Botany meet on Mondays, Tuesdays, Wednesdays, and Thursdays at 9 A.M. The Classes are conducted by the Professor and his Assistants.

5. Saturdays are occupied with excursions and demonstrations in the fields.

6. The rooms at the Garden are open to pupils for the examination of recent and dried specimens of plants.

7. Prizes are given for Herbaria, Essays, Dissections, Models, Microscopical Preparations, and Competitive Examinations. For notices of these Prizes see the list at the Botanic Garden.

8. Excursion for eight or ten days at the beginning of August.

Fee for First Course,	£4 4 0
Second Course,	3 3 0
Third Course,	Free.
Perpetual Ticket,	6 6 0
Fee for Superintendent of the Botanic Garden,	0 5 0

Text-Book.—The Professor's "Class-Book of Botany," or his "Manual of Botany."

XIII.—NATURAL HISTORY.

PROFESSOR SIR WYVILLE THOMSON.

I. *Lectures on Zoology and Comparative Anatomy.*

Zoology may be conveniently divided into :—

1. General Zoology, including the organization, the Physiology, and the development of animals in general ; their relations to external conditions, and their distribution in time and space. And—

2. Special Morphology, including the study of Zoological types ; and Taxonomy or Classification, the natural grouping of animal forms under these types.

The object of the course is to give a general view of the present state of zoological science as thus defined.

This year the lectures will extend as equally as possible over the whole subject, both Vertebrata and Invertebrata being treated, necessarily more generally than if a chief place were given to one of these divisions.

The Students have access to the Natural History collection in the Museum of Science and Art, and the lectures are illustrated by specimens from that collection, and from the Anatomical Museum in the University.

II. *Practical Class.*

In this Class demonstrations are given in the anatomy of the Vertebrate and Invertebrate Classes in order that the Student may become practically familiar with the facts of Comparative Anatomy and of Development, upon which a natural classification in Zoology is chiefly based. Students have also an opportunity of examining and dissecting examples of the different classes of animals with the assistance of Dr Bayley Balfour, by whom the class is conducted under the direction of the Professor.

For the ordinary work of the course I recommend for consultation and reference.—Huxley's "Anatomy of Invertebrated Animals ;" Huxley's "Anatomy of Vertebrated Animals ;" "Owen's Comparative Anatomy and Physio-

logy of Vertebrates ;" Rolleston's "Forms of Animal Life ;" Macalister's "Introduction to Animal Morphology ;" Claus' "Grundzüge der Zoologie ;" and Gegenbaur's "Grundriss der Vergleichenden Anatomie ;" and for the practical class, Huxley and Martin's "Elementary Biology."

XIV. MEDICAL PSYCHOLOGY :

WITH PRACTICAL INSTRUCTION IN MENTAL DISEASES.

PROFESSOR GRAINGER STEWART.

The object of this course is to instruct the Students in the Pathology, Symptoms, Causes and Treatment of Mental Diseases, in the Hereditary, Educational, Social, and Medico-legal relations of these diseases, and in the bearings of mental symptoms in ordinary Medical Practice.

The course will consist of systematic lectures delivered in the University, and Clinical and Pathological demonstrations conducted in the Royal Edinburgh Asylum, Morningside, by the Professor in conjunction with Dr Clouston, Physician-Superintendent of the Asylum.

MINIMUM COST OF ATTENDING THE MEDICAL CLASSES, WITH THE ORDER OF STUDY.

Whilst there is no authorised order of study, the usual Course is given below ; the Preliminary Examination in General Education is to be taken in the month of March or October, before entering the Medical Classes. Students are recommended to commence their Medical Studies by attending the Summer Session.

FIRST SUMMER SESSION.				FIRST WINTER SESSION.			
Preliminary Examination Fee..... £0 10 0				Matriculation (for whole year)..... £1 0 0			
Matriculation Fee..... 0 10 0				Anatomy..... 4 4 0			
Botany (garden fee, 5s.) 4 4 0				Practical Anatomy..... 3 3 0			
Natural History..... 4 4 0				Chemistry..... 4 4 0			
				Hospital..... 5 5 0			
<hr/> £9 8 0				(Perpetual Ticket, £10)			
				<hr/> £17 16 0			

Minimum Cost of Medical Classes.

SECOND SUMMER SESSION.

Botany or Nat. History, if not attended previously.			
Practical Chemistry.....	£3	3	0
Examination in Botany, Natural History, and Chemistry, in Octo- ber following*.....	5	5	0
	£8	8	0

SECOND WINTER SESSION.

Matriculation.....	£1	0	0
Institutes of Medicine..	4	4	0
Surgery.....	4	4	0
Hospital.....	5	5	0
Examination in Botany, Natural History, and Chemistry, in April, if not previously passed.			
	£14	13	0

THIRD SUMMER SESSION.

Practical Pharmacy.....	£2	2	0
Dispensary.....	2	2	0
Hospital.....			
	£4	4	0

THIRD WINTER SESSION.

Matriculation.....	£1	0	0
Materia Medica.....	4	4	0
Pathology.....	4	4	0
Clinical Surgery.....	4	4	0

Third Winter Session—continued.

Dispensary.....	1	1	0
Hospital.....			
Examination in Anato- my, Physiology, Ma- teria Medica, Patho- logy in April or July.	5	5	0
	£19	18	0

FOURTH SUMMER SESSION.

Medical Jurisprudence..	£4	4	0
Hospital and Clinical Lectures.....			
	£4	4	0

FOURTH WINTER SESSION.

Matriculation.....	£1	0	0
Practice of Medicine....	4	4	0
Midwifery.....	4	4	0
Practical Midwifery....	1	4	0
Clinical Medicine.....	4	4	0
Vaccination.....	1	1	0
Hospital.....			
	£15	17	0

FIFTH SUMMER SESSION.

Hospital.....			
Final Examination for M.B. and C.M.....	£10	10	0
Total Minimum Ex- penses for Class and Graduation Fees for M.B. and C.M.....	£104	18	0

Only one Course of Instruction on each subject is here stated, that being the minimum.

* For those who have certificates for two Summer Sessions and one Winter Session and who have attended two courses during each of these three sessions.

FEES FOR DEGREES.

Examination in Botany, Chemistry, Chemical Testing, and Natural History,	£5 5 0
Examination in Anatomy, Institutes of Medicine, Materia Medica, Pathology,	5 5 0
Final Examination in Surgery, Midwifery, Practice of Physic, Clinical Medicine, Clinical Surgery, Medical Jurisprudence, and Prescriptions, during last Summer Session,	5 5 0
Total Fees for M.B. Diploma,	<u>£15 15 0</u>
Additional Fee for C.M. Diploma,	£5 5 0
Additional Fee for M.D. Diploma,	5 5 0
Government Stamp-Duty (for M.D. only)	10 0 0

Note.—Total Fees and Stamp for graduating as M.D. only, by Regulations for Students commencing before February 1861, £25.

N.B.—The above fees include all charges for the Diplomas.

The Fees for Examination must be paid at the Secretary's office ten days before the dates thereof, and the Fees for the Degrees of C.M. and M.D., and the Stamp-Duty for the latter, must be paid on or before the 15th day of July in the year of Graduation. In the event of the Candidate not passing any one of the Professional Examinations, the Fee is not returned; but he may appear at one subsequent examination without paying an extra Fee, and at any future examination on paying One-Half the Fee.

Regulations for Graduation

*In ARTS, SCIENCE, MEDICINE, LAW, and DIVINITY ; with the
LISTS OF GRADUATES in these Departments.*

Graduation in Arts.

REGULATIONS OF THE UNIVERSITY OF EDINBURGH RELATIVE
TO THE DEGREE OF MASTER OF ARTS (M.A.)

*(Applicable to all who have entered their Academical Course since
31st October 1861.)*

The Degree of Master of Arts is a passport to the General Council of the University, to professional Study for the Learned Professions, to the Army, to the principal departments of the Public Service. It is also, under recent regulations, a passport to Masterships of Public Schools, under the Education Act (1872), subject to an examination in the methods of instruction, and three months' attendance in a Public School for the practice of teaching.

I. The ordinary Course of Study necessary for the Degree of Master of Arts (except in the circumstances mentioned in the following Article) extends over FOUR WINTER SESSIONS, and includes attendance for not less than two Sessions on the Classes of Humanity, (Latin), Greek, and Mathematics respectively ; and attendance for not less than one Session on the Classes of Logic and Metaphysics, Moral Philosophy, and Natural Philosophy respectively ; and also attendance on the Class of Rhetoric and English Literature.

II. Any Student who, at the time of his entrance to the University shall satisfy the Professors of the Faculty of Arts, on Examination, that he is qualified to attend the Higher Classes of Latin, Greek, or Mathematics, or any one of them, may be admitted to such Higher Class or Classes without having pre-

* Extract from Consolidated Regulations of the several Societies of Lincoln's Inn, the Middle Temple, the Inner Temple, and Gray's Inn, London, as to Legal Education.

"That every person who shall have passed a Public Examination at any of the Universities within the British Dominions, shall be entitled to be admitted as a Student to any Inn of Court for the purpose of being called to the Bar, or of practising under the Bar, without passing a Preliminary Examination.

"That Students of the said Societies who shall at the same time be Members of any of the Universities of Oxford, Cambridge, Dublin, London, Durham, the Queen's University in Ireland, St Andrews, Aberdeen, Glasgow, or Edinburgh, shall be enabled to keep Terms by Dining in the Halls of their respective Societies any Three days in each Term."

viously attended the Junior Class or Classes in the same department. When a Student has been thus admitted by the Faculty of Arts to the Higher Classes both of LATIN and GREEK, without having previously attended the First or Junior Latin and Greek Classes, his Course of Study for the Degree of Master of Arts may be completed within THREE WINTER SESSIONS, instead of Four. And no Student who is thus admitted to the Higher Class of LATIN, GREEK, or MATHEMATICS, without having previously attended the First or Junior Class in the same department, is required to give attendance in Latin, Greek, or Mathematics respectively, for more than one Session, as a necessary part of the Course of Study for the Degree of Master of Arts.

III. In pursuing the Course of Study for the Degree of Master of Arts, no Student is permitted to pass from the Junior to the Higher Class, unless the Professor is satisfied of his fitness to enter the Higher Class.

IV. It is in the power of any Student, who has given attendance during one or more Sessions in any Scottish University, to complete his Course of Study, by giving attendance during the remaining Sessions of the Course in the University of Edinburgh; provided always that every such Student gives attendance in the University of Edinburgh during, at least, the *last* Two Sessions of his Course; and provided also that he produces, to the satisfaction of the Faculty of Arts of the University of Edinburgh, Certificates of his attendance at the former Scottish University, and (if he has done so) of his having passed any of its three Departmental Examinations.

V. Candidates for the Degree of Master of Arts must be examined on all the subjects of instruction embraced in the above Course of Academical Study; and the examinations may be conducted wholly in writing or partly *viva voce*.

VI. Any Student who has completed his attendance on the Classes of

LATIN AND GREEK,

required in the prescribed Course of Study, may be examined on these Subjects, at any Examination for Degrees, although he may not have completed his attendance on the other Classes of the prescribed Course.

In like manner, any Student who has completed his attendance on the Classes of

LOGIC AND METAPHYSICS, MORAL PHILOSOPHY, AND RHETORIC AND ENGLISH LITERATURE,

may be examined on these Subjects, at any Examination for

Degrees, although he may not have completed his attendance on the other Classes of the prescribed Course.

Also in like manner, any Student who has completed the attendance required in the prescribed Course of Study on the Classes of

MATHEMATICS AND NATURAL PHILOSOPHY,

may be examined on these subjects at any Examination for Degrees, although he may not have completed his attendance on the other Classes of the prescribed Course.

And if such Student shall satisfy the Examiners, when so examined, in the Department of CLASSICAL LITERATURE, which comprehends Latin and Greek—or in the Department of PHILOSOPHY, which comprehends Logic and Metaphysics, Moral Philosophy, and Rhetoric and English Literature—or in the Department of MATHEMATICS, which comprehends pure Mathematics and Natural Philosophy, he shall receive from them a CERTIFICATE to that effect, and he shall not be examined again in the same Department, as a condition of his taking the Degree of Master of Arts.

VII. Students who have fulfilled the preceding conditions, and have passed the ordinary Examinations on the several subjects embraced in the prescribed Course of Study, are, after signing the *Sponsio Academica*, and on presenting themselves at the Public Ceremonial of Graduation in April, entitled to receive the Degree of Master of Arts; and their names are published in the UNIVERSITY CALENDAR, in alphabetical order, in the Graduation List.

VIII. At the Public Ceremonial of Graduation in Arts, held annually in April, the Degree of MASTER is conferred by the Chancellor or the Vice-Chancellor of the University, in name of the Senatus Academicus. Degrees are not conferred on any who are not present at the ceremonial of Graduation, and who have not signed the *Sponsio*, although they may have passed all their examinations. Those who are presented to receive the Degree must appear in Academical costume, and with the hood proper to the Degree.*

IX. Fees for Examination must be paid by Candidates in advance, when they intimate their names and addresses to the Clerk of the University. The Examination fee for the Degree in Master of Arts is *Three Guineas*. The fee for Examination of each of the three Departments mentioned in Article VI. is *One Guinea*; and no further fee than the sum of *Three Guineas*

* Black silk lined with white (see under *Academic Costume*)

is payable by any Candidate for admission to the Degree in Arts, whether with or without Honours.*

GRADUATION IN ARTS WITH HONOURS.

I. Students who have passed the Examinations in the three Departments embraced in the Course of Study prescribed for the Degree of Master of Arts, may, before taking the Degree, offer themselves for a further examination, with a view to Graduation with Honours; and that either in the same year in which they have completed the Pass or Ordinary Examinations, or in a future year. Also, any Student who desires to offer himself for Examination with a view to graduation with Honours, in any one or more departments, may proceed to such Honours' Examination, after sufficient attendance on the classes in the department or departments in which he desires to offer himself, without having previously passed the Examination in such department or departments for the Degree of Master of Arts without Honours; and if such Student, in the opinion of the Examiners, fails to attain the standard for Honours in any department, but attains to the standard of the Examination for graduation without Honours, he shall be held to have passed in that Department for the Degree of Master of Arts, without Honours; but if, in any such department, he fails to attain to the standard of the Examination for graduation without Honours, he shall not be entitled, until he shall have passed in that department, to the Degree of Master of Arts. And no person, without the permission of the Senatus Academicus, can be admitted to an Examination for *Honours*, after he has ceased, for more than one Winter Session, to be a Matriculated Student, in attendance on a class or classes in the University.

II. There are four departments for Graduation in Arts with Honours, in any one or more of which, subject to the preceding Regulation, Students may present themselves for further Examination, viz. :—

A. CLASSICAL LITERATURE,	{ Latin.
	{ Greek.
B. PHILOSOPHY,	{ Logic.
	{ Metaphysics.
	{ Moral Philosophy.

* After obtaining their Degree, Candidates should apply for their Diplomas at the office of the Secretary of the University. There is no additional charge for the Diploma. Those graduates who have completed their twenty-first year may have themselves enrolled at the Secretary's office as members of the University Council.

C. MATHEMATICS, . . .	{ Pure Mathematics.
	{ Natural Philosophy.
	{ Geology.
D. NATURAL SCIENCE, . . .	{ Zoology.
	{ Chemistry.
	{ Botany.

III. In each of the first three of the above-mentioned departments, viz., in Classical Literature, in Philosophy, and in Mathematics, there are *two* Grades of Honour, each representing, as nearly as possible, a uniform standard of qualification, and denominated respectively the FIRST CLASS and the SECOND CLASS. The names of candidates entitled to Honours, in each of these classes, are arranged in alphabetical order.

IV. In the department of Natural Science, there is only *one* class for Honours; and the names of candidates entitled to Honours in that class are arranged in alphabetical order.

V. The names of candidates to whom the Examiners award a First or Second Class in the Examination for Honours, will be duly published and retained in the UNIVERSITY CALENDAR, in the Class Lists, under the year in which the Honours were taken by them, and in the department or departments in which they were so classed.

ENTRANCE EXAMINATION FOR CURRICULUM OF THREE SESSIONS—SESSION 1878-79.

In terms of Regulation II., Entrance Examinations will be held by the Faculty of Arts at the commencement of Session 1878-79, in the University, on the *last Saturday of October*, at *Nine* o'clock, at which time Students entering their *First* Session in the Faculty of Arts, who desire to be enabled to complete their Curriculum in Arts within Three Winter Sessions, or who otherwise desire to be admitted to the Higher Class of Latin or of Greek, without having previously attended the First or Junior Class, must present themselves for examination. At these Examinations they will be asked to translate—

1. A simple passage from Livy or Cicero into English;
2. A passage of plain English into Latin;
3. A passage from Xenophon into English;
4. A few easy sentences from English into Greek, for the sake of testing their knowledge of Greek Grammar and Elementary Syntax.

N.B.—Great stress will be laid on grammatical accuracy in the translation from English into Latin Prose.

ENTRANCE EXAMINATION IN MATHEMATICS.

Students at the commencement of the *First Session* of their attendance at the University who desire, with a view to a Degree, to attend the *SECOND Mathematical Class*, without attending the First, will be examined on the *last Monday of October*, at *Nine o'clock*.

The subjects of Examination will be Arithmetic; Euclid, six Books; Elementary Algebra and Trigonometry; and Conic Sections treated geometrically.

* * Specimens of the Examination Papers for 1877, in Latin, Greek, and Mathematics, are given in the Calendar.

N.B.—*The Names of successful candidates in the Latin and Greek, and also in the Mathematical Examinations are published, with the names of the Schools from which they have come.*

PASS EXAMINATIONS FOR MASTER OF ARTS.

PROGRAMME FOR OCTOBER 1878 AND APRIL 1879.

Pass Examinations for the Degree of Master of Arts will take place in *October* 1878, on the four following days, viz., Monday the 21st, Tuesday the 22d, Wednesday the 23d, and Friday the 25th. The Examinations will be conducted in the following order:—

First Day, Monday, October 21.—Latin (9 to 11 and 12 to 2); Mathematics (2.30 to 4.30).

Second Day, Tuesday, October 22.—Mathematics (9 to 11); Greek (1 to 4).

Third Day, Wednesday, October 23.—Logic and Metaphysics (9 to 12); Natural Philosophy (1 to 4).

Fourth Day, Friday, October 25.—Moral Philosophy (9 to 12); Rhetoric and English Literature (1 to 4).

Pass Examinations for the Degree of Master of Arts will also take place in *April* 1879, on the four following days, viz., Saturday the 12th, Monday the 14th, Tuesday the 15th, and Wednesday the 16th. The Examinations will be conducted in the following order:—

First Day, Saturday, April 12.—Latin (9 to 11 and 12 to 2); Mathematics (3 to 5).

Second Day, Monday, April 14.—Mathematics (9 to 11); Greek (1 to 4).

Third Day, Tuesday, April 15.—Logic and Metaphysics (9 to 12); Natural Philosophy (1 to 4).

Fourth Day, Wednesday, April 16.—Moral Philosophy (9 to 12); Rhetoric and English Literature (1 to 4).

* * * *Candidates who have not completed their Curriculum in Arts are particularly recommended by the Faculty to present themselves for examination in October rather than in April.*

The subjects for the Pass Examinations in October 1878 and in April 1879 are as follows :—

A.—DEPARTMENT OF CLASSICAL LITERATURE.

Latin.

Virgil, *Georgics*, i., ii., *Eclogues*.

Cicero, *Epistolæ ad Atticum*, i.

Tacitus, *Annals*, xii.

A passage from a Latin Author not prescribed.

Translation into Latin prose.

A general knowledge of Roman History and Literature till the end of the Augustan Age.

Ability to translate into Latin prose is required of every Candidate.

Greek.

Herodotus, Book iv.

Homer, *Odyssey*, ix., x.

Sophocles, *Antigone*.

A passage from an easy Greek Author, not prescribed.

Greek History and Literature.

Laws of Hexameter and Iambic verse.

A few sentences of plain English to be turned into Greek.

B.—DEPARTMENT OF PHILOSOPHY.

Logic and Metaphysics.

The Subjects included in the Ordinary Class Lectures in Logic and in Metaphysics.

Special Reading :—Locke's *Essay*, Introduction, B. i., ii. chap. 1-12; the Professor's *Selections from Berkeley*, with the Introduction and Notes.

Moral Philosophy.

The Class Lectures — "Handbook of Moral Philosophy :"
Butler's Sermons, i.-iii.; Mackintosh's "Dissertation."

Rhetoric and English Literature.

Style and the Principles of Literature : Class Lectures.

History of the English Language. Book recommended—
Morris's "Historical Outlines of English Accidence."

History of English Literature, more particularly from 1350 to 1400, and from 1580 to 1688.

Special Readings required:—

Chaucer's *Squieres Tale*.

Spenser's *Faery Queene*, Book i.

Shakespeare's *Midsummer Night's Dream*.

Milton's *Paradise Regained*.

Johnson's *Life of Pope*.

Macaulay's *England*, ch. iii.

C.—DEPARTMENT OF MATHEMATICS.

Mathematics.

Arithmetic.

First Six Books of Euclid, and part of the Eleventh Book, with their application to Mensuration, Perspective, &c.

Algebra, Trigonometry, Conic Sections.

Natural Philosophy.

Elementary Dynamics.

Plane Astronomy and Experimental Physics.

The names and addresses of Candidates for the Degree of Master of Arts, or for Certificates in any of the three departments, who intend to present themselves in October 1878, must be announced to the *Secretary of the Senatus* not later than the 15th of October; or for the Examinations in April 1879, not later than the 21st of March.

In making the announcement to the Secretary, Candidates must mention the Department or Departments (if any) which they have already passed, and the dates of the corresponding Departmental Certificates. The Graduation Fee must be paid to the Secretary when the Candidate announces his name.

Certificates of attendance at the respective classes, with the Matriculation Ticket of the Candidate, must be produced to the Examiners, in the Examination Hall, on the *first* day on which the Candidate presents himself for examination in any Department. Candidates who have taken the Curriculum of Three Sessions, or who have passed the Entrance Examinations in Latin, Greek, or Mathematics, in this or any other of the Scottish Universities, must present the usual Certificates of having done so.

Candidates who have, in a former year, passed all the examinations necessary for Graduation, but without taking the Degree, and who desire to present themselves at the Ceremonial of Graduation in April 1879, must, *at least ten days previously*, send their names and addresses, and their *Departmental Certificates*, to the *Secretary of the Senatus*.

EXAMINATIONS FOR GRADUATION IN ARTS WITH HONOURS.

(Examinations for Honours are held in April only).

PROGRAMME FOR APRIL 1879.

Examinations for Honours will commence on Thursday, 17th April 1879.

The Examinations will be conducted in the following order:—

CLASSICAL LITERATURE.	{ April 17, 9 to 12, and 1 to 4. ,, 18, 9 to 12, and 1 to 4. ,, 19, 9 to 12, and 1 to 4.
PHILOSOPHY.	{ Logic April 17, 9 to 12. Metaphysics April 17, 1 to 4, and April 18, 9 to 12. Moral Philosophy... April 18, 1 to 4, and April 19, 9 to 12, and 1 to 4.
MATHEMATICS.	{ Pure Mathematics, April 17, 9 to 12, and 1 to 4. Natural Philosophy, April 18, 9 to 12, and 1 to 4.
NATURAL SCIENCE.	{ 1st and 2d April 1879.

The subjects of Examination are as follows:—

A.—DEPARTMENT OF CLASSICAL LITERATURE.

Latin.

Plautus, *Menaechmi*, *Mostellaria*, *Pseudolus*.

Lucretius, i. ii., v.

Horace.

Cicero, *Epistolæ ad Atticum*, xi.-xvi.

Tacitus, *Annals*, xi.-xvi.

Latin Prose Composition. Verse optional. Translation from Latin Authors not prescribed. Roman History and Literature.

Greek.

Homer, *Iliad*, i.-ix.

Aeschylus, *Eumenides*.

Aristophanes, *Clouds*.

Thucydides, i.-iii.

Plato, *Republic*, v.-vii.

Aristotle, *Metaphysics*, Book i.

Greek Prose Composition. Translation from Greek Authors not prescribed.

Greek History and Literature.

Candidates may profess, in addition, any other books in Latin or Greek on which they are willing to be examined. These books must be mentioned in writing to the *Dean of the Faculty* not later than the 21st of March.

B.—DEPARTMENT OF PHILOSOPHY.

Logic.

1. The more difficult Subjects and Exercises suggested in the lectures on Logic.

b. History of Logic.

c. Mill's Logic, Books ii., iii., v.

Candidates may profess in addition one or more of the treatises in Aristotle's "*Organon*," Bacon's "*Novum Organum*," Hamilton's "*Logic*," Ueberweg's "*Logic*," or any other approved treatises in Logic.

Metaphysics.

a. Questions in Metaphysics and History of Philosophy suggested by the lectures.

b. Special Study:—Locke's *Essay*, Books ii., iv. ; Berkeley's "*Works*," Vol. I. (Clarendon Press Edition), and his "*Common Place Book*" (in "*Life and Letters of Berkeley*"); Hume's *Inquiry Concerning Human Understanding*; Kant's *Kritik* (Meiklejohn's edition may be used.)

c. General History of Philosophy.

Candidates may profess in addition one or more of the following, or the like standard books:—Plato—"*Theaetetus*" and "*Republic*," v. 472—vii. (incl.), Aristotle—*De Anima*, "*Metaphysics*" (one or more books); Descartes—"*Method*," and "*Meditations*;" Spinoza's *Ethics*; Hobbes on "*Human Nature*;" Locke's "*Essay*;" Leibnitz—*Nouveaux Essais, Théodicée*, or "*Correspondence with Clarke*;" Hume's "*Human Nature*, Vol. I.;" Reid's "*Philosophical Works*," edited by Hamilton; James Mill's "*Analysis of the Human Mind*;" Ferrier's "*Institutes of Metaphysic*."

Moral Philosophy.

Plato's "*Republic*," i.-iv.; Aristotle's "*Ethics*," omitting v., vi., vii.; Kant's "*Metaphysic of Ethics*."

Besides these, Candidates may profess any one or more of the following or the like standard works:—Plato's *Protagoras*, *Gorgias*, and *Philebus*; Aristotle's "*Ethics*;" Cicero *De Officiis*; Hobbes' "*Leviathan*;" Spinoza's "*Ethics*;" Clarke's "*Demonstration*;" Edwards' "*Inquiry into the Freedom of the Will*;" Price's "*Review*;" Hume's *Ethical Works*.

Books in Logic, Metaphysics, or Moral Philosophy, professed by Candidates, must be intimated in writing to the *Dean of the Faculty* not later than the 21st of March.

C.—DEPARTMENT OF MATHEMATICS.

The advanced portions of the Elements of Algebra, Trigonometry, and Conic Sections, together with the ordinary portions of the Differential and Integral Calculus. Special additional subjects may be intimated by the Candidate,

The Elements of Experimental Physics generally ; with the simpler applications of Mathematics to Dynamics, and to one or more branches of Natural Philosophy, such as Geometrical or Physical Optics, Frictional or Voltaic Electricity, at the option of the Candidate.

The special subjects on which the Candidate is prepared to be examined must be intimated in writing to the *Dean of the Faculty* not later than the 21st of March.

D.—DEPARTMENT OF NATURAL SCIENCE.

Chemistry.

General Principles of Chemical Combination and Action ; Classification of the Elements ; Classification of Acids, Salts, and Bases.

The Candidate will be expected to show special acquaintance with some department of Chemistry, to be intimated in writing to the Dean of the Faculty, when his name is announced as a Candidate for Honours.

Botany.

Demonstration of the Organs of Plants (Vegetable Organography).

Functions performed by Leaves and by the parts of the Flower.

Principles of the Natural System of Classification as illustrated by the System of De Candolle. Fresh specimens of Plants to be referred to their Classes, Sub-Classes, Sections, and Orders.

General facts connected with the Distribution of Plants over the globe. Under *Regulations for Graduation in Science* a fuller statement of subjects is given.

(Candidates are referred to Balfour's "Class Book" or "Manual of Botany.")

Zoology.

General Principles of Zoological Classification.

General laws of Animal Structure and Development.

Distinguishing characters of all the Primary Groups and Classes of the Animal Kingdom.

Geology.

Agents of Geological change. Origin and composition of Rocks and Rock-forming Minerals. Structure of Rock Masses.

Stratified formations of Britain, with the characters and distribution of the more important genera and orders of plants and animals found in them.

Candidates who propose to present themselves at the Examination for Honours in April 1879, must intimate their names and addresses to the *Secretary of the Senatus*, not later than the 21st of March—specifying the Department or Departments for which they offer themselves.

No one who has ceased for more than one Winter Session to be a Matriculated Student in attendance on a class or classes in the University can be admitted to an Examination for *Honours* without permission of the *Senatus Academicus*.

Those who desire to offer themselves in any Department for Examination, with a view to Graduation in Arts with Honours, are requested to observe the alteration lately introduced into Regulation I. (p. 117), under which they may proceed to such Honours Examination without having previously presented themselves at the Pass Examination in the same Department or Departments.

A. C. FRASER,
Dean of the Faculty of Arts.

SPONSIO ACADEMICA TO BE SIGNED BY GRADUATES
IN ARTS.

Nos qui Nomina subsignamus Magisterii titulo jamjam donandi Spondemus nos in omni debitae gratitudinis officio erga Academiam Edinburgenam ad extremum vitae halitum perseveraturos.

GRADUATES IN ARTS.
HONOUR LISTS.

1862-3.

	<i>Classics.</i>	<i>Philosophy.</i>	<i>Mathematics.</i>
CLASS I.	_____	_____	_____
CLASS II.	_____	Dalrymple, Alex. M.	_____

1863-4.

	<i>Classics.</i>	<i>Philosophy.</i>	<i>Mathematics.</i>
CLASS I.	Nicolson, W. Millar.*	Robertson, J. M.†	_____
CLASS II.	_____	_____	_____

1864-5.

	<i>Classics.</i>	<i>Philosophy.</i>	<i>Mathematics.</i>
CLASS I.	_____	_____	_____
CLASS II.	Jeffrey, T.‡	Milne, James R. Muir, R. J.§	_____

Natural Science.—Morrison, R.

1865-6.

	<i>Classics.</i>	<i>Philosophy.</i>	<i>Mathematics.</i>
CLASS I.	Bathgate, James C.	Lindsay, Thomas M.¶	_____
		Rae, John.	
CLASS II.	_____	Bell, Benjamin.¶	Blaikie, Jas. A.**
		Wallace, D. Mackenzie.§§	Reoch, James.

* Min. F.C., Linlithgow.

† Min. of Stow.

‡ Classical Master in High School.

§ One of H. M. Inspectors of Schools.

¶ Prof. of Div. and Ch. Hist., F. Ch. Col., Glasgow.

¶ F. C. Min. of Frieckheim.

§§ H.M. Insp. Schls.; formy. Math. Mas., Fettes Col. §§ Author of "Russia" (1877).

1866-67.

	<i>Classics.</i>	<i>Philosophy.</i>	<i>Mathematics.</i>
CLASS I.	Peterson, Peter.* Watson, George.†	Duncan, David.†	_____
CLASS II.	Thorburn, Wm.‡	D. Rabagliati, Andrea. Mowat, Martin.|| <i>Natural Science.</i> —Nicholson, C. Patrick.	_____

1867-68.

	<i>Classics.</i>	<i>Philosophy.</i>	<i>Mathematics.</i>
CLASS I.	Colville, James. Muir, Julius Wood.¶ Omond, G. W. T** Omond, Thomas S.†† Wilson, Hugh.††	Dunlop, A. Murray. Hastie, William. Omond, Thos. S. _____	_____
CLASS II.	_____	Bain, J. A. K. Cotton, George. Muir, Alexander. Omond, G. W. T. Sanders, Robert. Smith, William. Thorburn, James B.	Muir, J. Wood. _____

1868-69.

	<i>Classics.</i>	<i>Philosophy.</i>	<i>Mathematics.</i>
CLASS I.	Addis, David F.§§ Durham, Wm. Marshall, John.¶¶	Forbes, George. _____	Galloway, Robert K. Marshall, D. Henry.||||
CLASS II.	_____	Bonallo, James.***	Matthew, James.

1869-70.

	<i>Classics.</i>	<i>Philosophy.</i>	<i>Mathematics.</i>
CLASS I.	Kirkup, Thos. Walker, Thos. Wallace, James. §§§	Mackinnon, Donald.††† Maclaren, C. B. Bright.†††	_____
CLASS II.	Platt, Henry.	M'Naughtan, Geo. D. <i>Natural Science.</i> —Adams, D. Laird.¶¶¶	_____

1870-71.

	<i>Classics.</i>	<i>Philosophy.</i>	<i>Mathematics.</i>
CLASS I.	Raleigh, Thomas.	Adamson, Robert.**** Shand, Alex. E.	Wood, Philip.
CLASS II.	Roberton, Robt. C.	Chisholm, George G.	Ormond, J. M.

* Prof. of Sanscrit, Madras.

† Professor of Logic and Moral Philosophy, Presidency Col., Madras. ‡ Advocate.

§ Advocate. || Professor of Mathematics, Presidency College, Bengal.

¶ Ind. Civil Service. ** Advocate. †† Fellow of St John's College, Oxford.

‡‡ H.M. Inspector of Schools. §§ Ind. Civil Service. ||| Prof. of Math., Japan.

¶¶ Barrister-at-law, Professor of Classics, Yorkshire College, Leeds.

*** Min. of Auldearn. ††† Advocate. ††† Barrister-at-Law.

§§§ Secretary to Edin. School Board. ¶¶¶ Min. Ch. of S., Edin.

**** Professor of Logic and Mental Philosophy in Owens College, Manchester.

		1871-72.	
	<i>Classics.</i>	<i>Philosophy.</i>	<i>Mathematics.</i>
CLASS I.	_____	Fraser, Hugh John	Lang, P. R. Scott.
		Edward.*	
CLASS II.	_____	Macmorran, Alex.	_____
	<i>Classics.</i>	1872-73:	
CLASS I.	Robert Clark.	<i>Philosophy.</i>	<i>Mathematics.</i>
CLASS II.	Charles W. Imrie.	Donald Ross.†	Charles C. Grant.
		_____	_____
	<i>Classics.</i>	1873-74.	
CLASS I.	Anderson, T. D.	<i>Philosophy.</i>	<i>Mathematics.</i>
CLASS II.	Warren, J. C.	Ross, D. M.	_____
	_____	Reid, J.	Daniell, Alfred.
		Shaw, T.*	_____
	<i>Classics.</i>	1874-75.	
CLASS I.	Barbour, R. W.	<i>Philosophy.</i>	<i>Mathematics.</i>
	Macleish, A. L.	Barbour, R. W.	Lundie, R. A.
	Peterson, W.	Mummery, A. W.‡	MacDiarmid, J.
	Ritchie, D. G.	Sorley, W. R.	Macfarlane, A.
CLASS II.	Ferguson, J. W.	May, W.	Macleish, A. L.
	Ogilvie, W. P.		
	Sym, J. D.		
	<i>Classics.</i>	1875-76.	
CLASS I.	Cownie, R. J.	<i>Philosophy.</i>	<i>Mathematics.</i>
	Gardiner, G. B.	Haldane, R. B.	Howat, John R.
	Greig, Charles E.	_____	Mackenzie, H. W. G.
CLASS II.	Gilray, Thomas.	Greig, Charles E.	Paton, James A.
	_____	Philip, Adam.	_____
	<i>Classical Literature.</i>	1876-77.	
CLASS I.	Capper, J. B.	<i>Philosophy.</i>	<i>Mathematics.</i>
	Orr, R. L.	Porteous, John.	Hunter, J. A. W.
	_____	Stalker, A. M.	Raitt, William.
CLASS II.	Macgregor, Duncan C.	Grant, J. F. W.	Robson, H. C.
	Robson, Samuel.	Watt, Francis.	Barclay, A. J. G.
		1878.	_____
	<i>Classical Literature.</i>	<i>Philosophy.</i>	<i>Mathematics.</i>
CLASS I.	Mackail, J. W.§	Seth, A.	Traill, D.
	Seth, A.	_____	Walker, W. O.
	Stobo, J.	_____	Wood, L. B.
CLASS II.	Porteous, A. M.	_____	Low, T.
	_____	_____	Stobo, J.
	_____	_____	Walker, S.
	<i>Natural Science.</i> —Limont, J. ; Smith, J.		

* Advocate. † H.M. Inspector of Schools. ‡ Scholar. St John's Coll., Cam.
§ Elected Exhibitioner and Honorary Scholar of Balliol College, Oxford.

Names of those who, by passing the Ordinary Examinations, obtained the

DEGREE OF MASTER OF ARTS.

29th October 1877.

Alexander Pringle Davidson.
Frederick Hardyman Parker.
Joseph Wren.

24th November 1877.

Charles Christie.

23d April 1878.

Barton, J. W.	Johnston, C. N.	Rae, W. J.
Bell, W. S.	Kerr, R. H.	Robertson, J.
Blaikie, R. H.	Kinnear, J.	Robertson, J. L. (Stor- noway).
Boyd, T. J.	Kirkpatrick, R. S.	Robertson, J. L. (Blair- gowrie).
Brown, P. H.	Laird, D. M. W.	Scott, D. C.
Bruce, J.	Lamont, J.	Shaw, R.
Buchan, T. W.	Lawson, J.	Simpson, R. J. S.
Cameron, A.	Limont, W.	Sinclair, F. W.
Cathels, D.	Little, C. E.	Smellie, A.
Chisholm, J.	Lockhart, R. B.	Smith, J. R. D.
Colvin, F. H.	Lyall, G.	Stevenson, A.
Crawford, J. H.	Macdonald, W.	Stevenson, J.
Davidson, W. B. Y.	M'Intyre, J. M.	Stewart, D. R.
Dinwiddie, A. H.	Mackay, J.	Stewart, P. C.
Dobie, J.	Mackay, M.	Sym, W. M.
Donaldson, J. K.	Mackenzie, J. H.	Thomson, A.
Douglas, Samuel.	Mackintosh, J.	Todd, J.
Duncan, J.	M'Laren, J.	Vassie, W.
Duncan, P.	M'Lennan, D.	Watters, J. D.
Falconer, H.	Melles, J. W.	Waugh, J.
Fleming, J. R.	Mills, A.	Whyte, C.
Foster, J.	Milne, J. B.	Whyte, J. M.
Fraser, D. M.	Morrison, W.	Williamson, A. W.
Goldie, T. S.	Norval, W. T.	Woodhead, E.
Gordon, P. J.	Paterson, J.	Yates, J. S.
Hamilton, J. M.	Penney, Scott M.	Young, R.
Hope, J. W.	Philip, R. W.	
Horn, A.	Pressly, J. S.	
Innes, J. C.		

In addition to the above, 18 Candidates passed the Ordinary Examinations in the three Departments, but without at present taking the Degree.

At the Examinations in *October* 1877, 30 Candidates obtained Certificates in the Department of Classical Literature, 16 in the Department of Mental Philosophy, and 16 in the Department of Mathematics.

At the Examinations in *April* 1878, 96 Candidates obtained Certificates in the Department of Classical Literature, 85 in the Department of Mental Philosophy, and 73 in the Department of Mathematics.

Graduation in Science.

REGULATIONS AS TO DEGREES IN SCIENCE.

Two Degrees in Science are conferred by the University of Edinburgh, viz.,—Bachelor of Science (B.Sc.,) and Doctor of Science (D.Sc.). Both these Degrees are conferred in Physical and Natural Science, in Public Health, and in Engineering. In Mental Science and Philology the Degree of Doctor of Science only is conferred.

SECTION A.—DEGREE OF DOCTOR IN PHYSICAL AND NATURAL SCIENCE.

I.—QUALIFICATIONS REQUIRED IN CANDIDATES.

1. Candidates for a Degree in Physical and Natural Science must give proofs of having received a liberal education by being either

- (a.) Bachelors or Masters of Arts, by examination, of British or recognised Indian or Colonial Universities.
- (b.) Bachelors or Doctors of Medicine of British or recognised Indian or Colonial Universities.
- (c.) Holders of two Departmental Certificates in the Faculty of Art of this University.
- (d.) Matriculated Students of the University of London.
- (e.) Students who have been admitted by Examination to the Royal Indian Engineering College, Coopers Hill, and who have obtained 50 per cent. of the marks in Latin or in Greek in the Competitive Examination for entrance to that College. Should such Students not bring evidence of having obtained 50 per cent. in either of these subjects, they will be required to pass the undermentioned Preliminary Examination in Latin.
- (f.) The Leaving Examinations of the Universities of Oxford and Cambridge when certified as equivalent to a pass in Responses at Oxford and the First Examination at Cambridge.

2. Failing any of these qualifications, the candidate must pass a Preliminary Examination in English, Latin, Arithmetic, the Elements of Mathematics, and the Elements of Mechanics; and he must also pass an examination in at least two of the following subjects:—Greek, French, German, Higher Mathematics, Natural Philosophy, Logic, and Moral Philosophy.

Candidates for this Preliminary Examination are examined at the same time as those for entrance into the study of medicine. For further details as to the Preliminary Examinations see Notices under “Medical Graduation” in the Calendar.

3. They must also produce evidence of attendance on qualifying Classes embracing the subjects included in the Science Examination which they purpose to undergo.

4. The attendance on such classes must extend over three Academic years, one of which must be passed at the University of Edinburgh, the other two years either at this University, or at Universities or Institutions* recognised by and approved by this University. Classes of Chemistry, of Practical Chemistry, of Botany, and of Zoology, which are recognised for the First Professional Examination for Degrees in Medicine are also recognised for the First Bachelor of Science Examination.

5. Each Academic year must be constituted by attendance on Science Classes during at least two full winter courses, or one full winter course, and two full summer courses. Continuous work in a scientific laboratory extending over a period of not less than five months will be reckoned equivalent to a full winter course of lectures, and continuous work in a scientific laboratory extending over a period of three months will be reckoned equivalent to a full summer course of lectures.

6. Every Candidate for a Degree in Science must be matriculated for the year in which he appears for Examination.

7. The First and Second Examination for Degrees in Science must in each case be taken at a single period.

II.—EXAMINATIONS.

For the Degree of Bachelor of Science, there are two Examinations, conducted by written questions, as well as orally and practically.

(a.) FIRST BACHELOR OF SCIENCE EXAMINATION.

1. The First Examination for B.Sc. is as to the general knowledge of the Candidate on the following subjects, viz. :—

MATHEMATICS.	ZOOLOGY, including COM-
NATURAL PHILOSOPHY.	PARATIVE ANATOMY.
CHEMISTRY.	BOTANY.

2. The Examinations in Mathematics and Natural Philosophy take place on the days of Examination for these subjects, announced in the *Regulations for Graduation in Arts*.

3. The Examinations in Chemistry, Zoology, and Botany, take place at the same time as the examinations on these subjects, announced in the *Regulations for Graduation in Medicine*.

4. Exemptions from Examination :—

(1.) Persons possessing the following qualifications are exempted from the whole of the First B.Sc. Examination.

* The Institutions to be approved of by the University must be of a high class, such as the Royal School of Mines, London, the Ecole Centrale, or the Ecole des Mines, Paris

- a. Masters of Arts who have taken honours in the Natural Sciences after passing the examinations for M.A. *in this University*.
- β. Bachelors and Doctors of Medicine and candidates for these Degrees, who have taken honours in the Natural Science. at their professional examinations in this University, and who have also passed with distinction in higher Mathematics, and Natural Philosophy, in their extra-professional or preliminary examinations.
- (2.) Holders of certificates from the classes devoted to any of the above subjects in Science in the University of Edinburgh, shewing that the candidate obtained, at least, 80 per cent. of the available marks during the Session, will be exempted from the *written* examination on that subject.
- (3.) Masters of Arts, and holders of departmental certificates in the Department of Mathematics, are exempted from Examination in Mathematics and Natural Philosophy.

(b.) SECOND BACHELOR OF SCIENCE EXAMINATION.

1. The Second B.Sc. Examination is divided into the following groups, one of which must be professed by the candidate :—

- | | |
|--|--|
| (a.) THE MATHEMATICAL SCIENCES, | $\left\{ \begin{array}{l} \text{Higher Mathematics,} \\ \text{Natural Philosophy.} \end{array} \right.$ |
| (b.) THE PHYSICAL EXPERIMENTAL SCIENCES, | |
| (c.) THE NATURAL SCIENCES, | $\left\{ \begin{array}{l} \text{Experimental Physics,} \\ \text{Chemistry.} \\ \text{Zoology, Botany, Physiology, Geology.} \end{array} \right.$ |

2. The Examinations in the first two of these departments (except in Chemistry) will take place at the same time as the Examination for the Degree of M.A., and in the last, (and in Chemistry,) at the same time as the Examination for the First M.B. Professional Examination.

3. A Candidate who has passed the First B.Sc. Examination may proceed to the Second, after an interval of six months.

4. A Candidate who has passed the First and Second B.Sc. Examinations will be recommended to the Senatus for that Degree, which will be conferred at one of the usual times appointed for giving Degrees.

(c.) DOCTOR OF SCIENCE EXAMINATION.

1. A Candidate who has received the Degree of B.Sc. may proceed to that of Doctor of Science, after a lapse of twelve months.

2. A Candidate for the Degree of D.Sc. must profess one of the above mentioned sciences, of which he will be expected to have a thorough knowledge.

3. He must submit a Thesis containing some original Researches on the subject of his intended Examination, and such Thesis must be approved before the candidate is allowed to proceed to Examination.

4. The Degree of D.Sc. will not be conferred on any Candidate who has not completed his 21st year.

III.—FEES.

The following is the scale of fees which are charged for the Degrees in Science (sects. A. and B) :—

1. For the preliminary examination, or for registration of qualification,	£1	1	0
2. For the First Bachelor of Science examination,	2	2	0
3. For the Second Bachelor of Science examination,	2	2	0
4. For the Doctor of Science examination,	5	5	0
	<hr/>		
	£10	10	0

Candidates for Science Examinations should announce their names and addresses to the Registrar, and pay the fees, before the 1st of March, or the 2d of October. In the event of a Candidate not passing either of the B.Sc. or D.Sc. Examinations in Sections A, B, and C, the fee is not returned, but he may appear at one subsequent examination without paying an extra fee, and at any future examination on paying one-half of the fee.

IV.—OUTLINE OF SUBJECTS REQUIRED IN EXAMINATIONS FOR DEGREES IN SCIENCE.

FIRST BACHELOR OF SCIENCE EXAMINATION.

I. MATHEMATICS.

Euclid, Books i.-vi., with the first twenty-one Propositions of Book xi. Elementary Trigonometry, and Conic Sections.

Elementary Algebra, including Progressions, Surds, the Binomial Theorem, &c.

2. NATURAL PHILOSOPHY.

(a.) APPLIED MATHEMATICS, including the treatment by Elementary Geometry, Algebra, and Trigonometry, of the following subjects (such as may reasonably be acquired in one or two sessions' attendance at a course of Natural Philosophy)—

Kinematics, including Velocity, Acceleration, Angular Velocity, Simple Harmonic Motion, &c., and their composition and resolution.

Abstract Dynamics, including Elementary Statics, Kinetics, Hydrostatics, and Hydrokinetics.

Geometrical Optics.

Plane Astronomy.

(b.) EXPERIMENTAL PHYSICS, including

Laws of Motion.

Properties of Matter.

Sound and Harmonics.

Light, with the fundamental principles of the Undulatory Theory.

Heat, with the fundamental principles of the Dynamical Theory.

Electricity, including the Experimental laws of Static and Galvanic Electricity, Induction, Magnetism, and Electro-Magnetism.

Conservation of Energy as the experimental law of physical phenomena.

3. CHEMISTRY.

Classification of Elements. General Laws of Chemical Combination and Action, as illustrated in the simpler compounds of the more commonly occurring elements. Symbolic Notation.

Preparation and Properties of the Non-Metallic Elements and their chief Compounds. Manufacture of Sulphuric, Nitric, and Hydrochloric Acids and Ammonia.

Classification and General Properties of Acids, Bases, and Salts.

Manufacture and Properties of Soda, Potash, Nitre. Gunpowder, Lime, Mortars. Cements, Earthenware, Porcelain, and Glass.

Metallurgical operations in general. Preparation of Iron, Zinc, Copper, Lead, Tin, Mercury, and Silver, from their Ores. Alloys. Preparation, Properties, and Composition of Cast-Iron, Wrought-Iron, and Steel. Principal salts of Potassium, Sodium, Ammonium, Barium, Strontium, Calcium, Magnesium, Zinc, Aluminium, Chromium, Manganese, Iron, Cobalt, Nickel, Copper, Lead, Silver, Gold, Mercury, Platinum, Tin, Bismuth, Antimony, Arsenic.

Classification of Organic Compounds. Alcohol, Ether, Acetic Acid, Tartaric Acid, Citric Acid, Wood, Sugars, Starch, Coal-Gas, Coal-Tar, Oils and Fats, Saponification, Urea.

Simple Qualitative Analysis. [*The Examination in Analysis is conducted practically.*]

4. ZOOLOGY AND COMPARATIVE ANATOMY.

The general characters of the Animal Kingdom, and the general Structure and Organization of Animals. Principles of Zoological Classification. General plan of structure, and physiology of the Types: Protozoa, Porifera, Coelenterata, Echinodermata, Vermes, Articulata, Mollusca, and Vertebrata.

The special distinctive characters of the following groups, with a knowledge of familiar examples of each, and the conditions and circumstances under which they occur; candidates will be required to refer any specimens shewn to them by the Examiner for this purpose to their

respective groups: Rhizopoda, Infusoria; Porifera silicea, calcarea; Zoantharia, Alcyonaria, Hydrozoa; Echinidea, Asteridea, Crinoidea; Platylmia, Nematelmia, Annelida; Crustacea, Arachnida, Myriapoda, Insecta; Lamellibranchiata, Gastropoda, Cephalopoda; Pisces, Amphibia, Reptilia, Aves, Mammalia.

5. BOTANY.

Candidates to be examined on the structure and functions of plants, the principles of classification, classes, sub-classes, and sections of the Natural System, and a few of the principal Orders, as enumerated below.

Text-Book.—Balfour's Class-Book, or his Manual of Botany.

More specific statement of Subjects.

Elementary Tissues of Plants—their chemical constituents, contents, and mode of development.

General characters and functions of the Root, Stem, Leaf, envelopes of the Flower, Stamen, Pistil, Fruit and Seed.

Phyllotaxis, Inflorescence, Anthotaxis, Metamorphosis, Vernation, Aestivation, Stipulation, Placentation.

Respiration and Transpiration. Movement of Sap and its causes.

Embryogenic process in Phanerogamic and Cryptogamic Plants.

Germination. Propagation by Buds and by Division.

Classification of Plants—Cellular and Vascular Plants; Phanerogamous and Cryptogamous; Dicotyledons (Angiospermous and Gymnospermous); Monocotyledons; Acotyledons; Exogens; Endogens; Acrogens; Thallogens.

Botanical characters to be demonstrated on conspicuous specimens of the following Natural Orders:—

Ranunculaceæ, Papaveraceæ, Cruciferae, Caryophyllaceæ, Malvaceæ, Leguminosæ, Rosaceæ, Onagraceæ, Umbelliferae, Dipsacaceæ, Compositæ, Campanulaceæ including Lobeliaceæ, Boraginaceæ, Labiatae, Scrophulariaceæ, Primulaceæ, Euphorbiaceæ, Salicaceæ, Corylaceæ, Coniferae, Cycadaceæ, Orchidaceæ, Amaryllidaceæ, Musaceæ, Liliaceæ, Palmae, Cyperaceæ, Gramineæ, Filices, Musci.

Derivation and meaning of the more important Botanical terms.

SECOND BACHELOR OF SCIENCE EXAMINATION.

(a.) THE MATHEMATICAL SCIENCES.

I. MATHEMATICS.

Algebra, including the Theory of Equations.

Trigonometry, Plane and Spherical.

Analytical Geometry of two and three dimensions,

The Differential and Integral Calculus.

2. NATURAL PHILOSOPHY.

For the *Second Examination*, the same subjects will be taken, as in the *First* (See above, p. 6.), but they will be carried out with a higher application of Mathematics, and with a more strict examination into the candidate's acquaintance with the Experimental part of the subject.

(b.) THE PHYSICAL EXPERIMENTAL SCIENCES.

I. EXPERIMENTAL PHYSICS.

Candidates will be required to show considerable familiarity with the processes required for the determination of physical constants—such as, for instance, *the Specific Heat, the Specific Inductive Capacity, the Thermal and Electric Conductivity of a substance; the Velocity of Light, or of Sound; the Magnetic Dip, Variation, and Horizontal Intensity, &c., &c.*

2. CHEMISTRY.

Inorganic Chemistry.

Organic Chemistry.

Relation between Chemical and Physical Properties.

Complex Qualitative Analysis. [*The Examination in Analysis will be conducted practically.*]

(c.) THE NATURAL SCIENCES.

I. ZOOLOGY AND COMPARATIVE ANATOMY.

The same subjects as for the First Bachelor of Science Examination, with these additions:—In General Zoology: A fuller knowledge of progressive organization and the specialization of function, of the general principles of animal morphology, and of geographical distribution. In classification: A knowledge of the characters of all animal groups of the value of *classes*, and of the recent *orders* of Pisces, Amphibia, Reptilia, Aves, and Mammalia. A general knowledge of the structure of the vertebrate skeleton.

2. ANIMAL PHYSIOLOGY.

The functions of Epithelium, Blood Corpuscles, Connective Tissue, Cartilage, Bone, Muscle, and Nerve Tissues.

The Circulation of the Blood in the Vertebrata.

The Composition and Functions of the Blood.

The Process of Respiration in Invertebrata and Vertebrata.

The Alimentary Substances necessary for the maintenance of animal life.

The Processes of Mastication and Deglutition.

Secretion by the Salivary, Gastric, and Intestinal Glands, Pancreas and Liver, together with the composition of the respective Secretions and their actions on the Food.

Absorption from the Alimentary Canal.

Glucogenic Function of the Liver.

Functions of the Lymph and of Blood Glands.

Functions of the Kidneys and Skin.

The Temperature of Animals.

The Functions of the two Roots of a Spinal Nerve, and the Mechanism of Reflex Action.

The Functions of the Brain and Spinal Cord in Fishes, Amphibians and Mammals.

The Sense Organs of a Mammal.

The chief Phenomena in the Development of a Bird.

A knowledge of the microscopical structure of the several Tissues and Organs of the Body will also be required, and the candidate will be expected to recognise specimens of them under the microscope.

Text-Books.—Carpenter's "Manual of Physiology." M'Kendrick's "Animal Physiology." "Foster and Balfour on Development," Part I.

3. BOTANY. (*Specialised*).

Vegetable Histology, Vegetable Morphology, Vegetable Physiology, including Development.

Systematic Botany—The structure and physiological characters of the principal Natural Orders of the Vegetable Kingdom.

Botanical Geography, Distribution of Plants in Britain.

4. GEOLOGY, INCLUDING PALÆONTOLOGY AND MINERALOGY.

Physical Geography, Meteorology, and Dynamical Geology—The nature and operation of Geological agents: Rain, Rivers, Ice, the Sea, Earthquakes, Volcanoes, Movements of Upheaval and Depression.

Mineralogical and Petrographical Geology—Characters of Rock-forming Minerals: Composition, Origin, and Distribution of Rocks.

Structural Geology—The Structure of Rock-masses: Joints, Bedding, Cleavage, Foliation, Metamorphism, Faults, Unconformability, Denudation.

Stratigraphical Geology—The History of the Geological Formations of the British Islands.

Palæontological Geology—Characters and Distribution in time of the more important Genera and Orders found fossil in Britain.

DOCTOR OF SCIENCE EXAMINATION.

I. MATHEMATICS.

The candidate will be required to show very high attainments in one of the following subjects:—

1. Geometry and Trigonometry.

2. Analytical Geometry.

3. Algebra.

4. The Differential Calculus generally.

5. Special departments, such as the Calculus of Variations, the Theory of Determinants, Quaternions, &c.

2. NATURAL PHILOSOPHY.

Candidates are required to pass a *searching* examination in *one* of the following subjects or groups of subjects (in all its details), and to shew more than a mere elementary knowledge of at least *two* others :—

(A.) APPLIED MATHEMATICS.

1. *Abstract Dynamics*, including *Kinematics*.
2. *Acoustics* and *Theory of Light*.
3. *Conservation of Energy* including the *Dynamical Theory of Heat*.
4. *Electricity*, including the mathematical theories of *Static and Voltaic Electricity*, *Induction*, *Magnetism*, and *Electro-Magnetism*.
5. *Physical Astronomy*, including the *Lunar and Planetary Theories*, the *Figure of the Earth*, *Precession*, and *Nutation*.

(B.) EXPERIMENTAL PHYSICS, OR SCIENCE OF OBSERVATION.

6. *Properties of Matter*.
7. *Sound and Light*.
8. *Heat and Energy* (generally).
9. *Electricity, Magnetism, &c.*

(C.) PRACTICAL ASTRONOMY.

1. *Nautical Astronomy*, and such applications of received science as are necessary in finding angular positions, as latitude and longitude, in voyaging over the surface of the globe.

2. *Terrestrial Astronomy*, and those processes, both of observation and computation, which are employed in determining the size and figure of the earth, as a base-line for further measures.

3. *Cosmical Astronomy*, and the determination, by the most refined operations, of the distances, magnitudes, masses, and movements of the heavenly bodies.

In each of these branches, a knowledge of the principles of the usual instruments employed in them, will be required; some observations with one at least of them, and upon one or more of the problems, must have been taken under the open sky; and practical ability shewn, in eliminating by calculation instrumental and terrestrial errors, as well as in exhibiting the numerical value of the astronomical result, both with regard to what has been done by previous good observers in the same field, and to the predictions of the best theory.

3. CHEMISTRY.

The candidate will be required to pass a *searching* examination in one of the following branches :—

1. The Chemistry and Chemical Technology of Inorganic Bodies, including Metallurgy.
2. Organic Chemistry.

And to shew a thorough practical acquaintance with Chemical Analysis in all its branches.

4. ZOOLOGY AND COMPARATIVE ANATOMY.

The same subjects as for the Bachelor of Science Examination, with these further additions:—In General Zoology: A more thorough knowledge will be required of the modifications of special organs throughout the animal kingdom; and the Candidate may be examined upon the leading phenomena of animal reproduction and development, including the phenomena of germination, metagenesis, parthenogenesis, and metamorphosis. In classification: a *competent* knowledge will be required of the details of classification of one of the invertebrate types, to be selected by the Candidate.

5. ANIMAL PHYSIOLOGY.

The candidate will be expected to show a thorough knowledge of Human Physiology, together with the Comparative Physiology of the Nervous, Circulatory, and Respiratory Systems. He will also be examined practically in Histology, Physiological Chemistry, and Physiological Physics.

6. BOTANY.

Structural and Physiological characters of the Natural Orders of the Vegetable Kingdom, together with a practical knowledge of the genera and species of some particular group to be selected by the candidate, and approved by the Examiners; along with Botanical Geography and Fossil Botany.

7. GEOLOGY INCLUDING PALÆONTOLOGY AND MINERALOGY.

In addition to a more searching test of the knowledge of the subjects prescribed for the Second Bachelor of Science Examination, Candidates will be required to show some acquaintance with the Geology and Palæontology of foreign countries as well as of the British Islands. It will be necessary that they evince sound practical knowledge. To test their acquirements in this respect, they will be asked to identify and describe specimens of minerals, rocks, and fossils placed before them; and from a geological map, which will be furnished to them, to write a paper (with sections) on the geology of the district to which the map refers.

ALEX. CRUM BROWN, M.D., *Convener.*

SECTION B.—DEGREES OF BACHELOR AND DOCTOR IN ENGINEERING.

The Degrees of *Bachelor of Science* and *Doctor of Science* are open to Candidates submitting themselves for examination in Engineering according to the subjoined Rules.

1. Candidates must have the qualifications required by Section A, pp. 3, 4.
2. There will be two examinations in Science for the Degree of *Bachelor of Science*, and a third examination for the Degree of *Doctor of Science*. The examinations will be written, oral, and practical.
3. The first examination is as to the general knowledge of the Candidate on the following subjects, viz. :—

MATHEMATICS.
NATURAL PHILOSOPHY.
CHEMISTRY.

4. This examination is called the *First Bachelor of Science Examination in Engineering*, and is compulsory on all who do not possess the qualifications which entitle a Candidate to be exempted from the First Bachelor of Science Examination in Section A.

5. The Candidate who has passed the *First Bachelor of Science Examination* (or has the qualifications necessary to exempt him from this Examination), may proceed to the Second Examination after an interval of six months. This is called the *Second Bachelor of Science Examination*. The Candidate will be examined in the following subjects :—

MATHEMATICS applied to Mechanics.
ENGINEERING.
DRAWING.

6. The Candidate, after passing the Second Examination, shall be recommended to the Senatus for the Degree of Bachelor of Science.

7. A Candidate who has received the Degree of B.Sc., and who desires to proceed to the Degree of *Doctor of Science*, may present himself for a third examination, after the expiry of twelve months.

8. The examinations for Degrees will be conducted by University Examiners, and an Examiner appointed by the University Court.

9. The Degree of D.Sc. will not be conferred on any Candidate who has not completed his 21st year.

FIRST BACHELOR OF SCIENCE EXAMINATION.

(a). MATHEMATICS—

Arithmetic.

Algebra.—To the end of Quadratic Equations inclusive, with Progressions, the Binomial and Exponential Theorems, and Logarithms.

Geometry.—Equivalent to the first four and sixth Books of Euclid, and part of the eleventh.

Conic Sections, treated geometrically.

Plane Trigonometry.—Angles and Triangles, with their relations.

Analytical Geometry.—The Rudiments in two and in three Dimensions.

(b.) NATURAL PHILOSOPHY—

(a.) APPLIED MATHEMATICS, including the treatment by Elementary Geometry, Algebra, and Trigonometry, of the following subjects (such as may reasonably be acquired in one or two sessions' attendance at a course of Natural Philosophy)—

Kinematics, including Velocity, Acceleration, Angular Velocity, Simple Harmonic Motion, &c., and their composition and resolution.

Abstract Dynamics, including Elementary Statics, Kinetics, Hydrostatics, and Hydrokinetics.

Geometrical Optics.

Plane Astronomy.

(b.) EXPERIMENTAL PHYSICS, including

Laws of Motion.

Properties of Matter.

Sound and Harmonies.

Light, with the fundamental principles of the Undulatory Theory.

Heat, with the fundamental principles of the Dynamical Theory.

Electricity, including the Experimental laws of Static and Galvanic Electricity, Induction, Magnetism, and Electro-Magnetism.

Conservation of Energy as the Experimental law of physical phenomena.

(c.) CHEMISTRY—

Classification of Elements. General Laws of Chemical Combination and Action, as illustrated in the simpler compounds of the more commonly occurring elements. Symbolic Notation.

Preparation and Properties of the Non-Metallic Elements and their chief Compounds. Manufacture of Sulphuric, Nitric, and Hydrochloric Acids and Ammonia.

Classification and General Properties of Acids, Bases, and Salts.

Manufacture and Properties of Soda, Potash, Nitre, Gunpowder, Lime, Mortars, Cements, Earthenware, Porcelain, and Glass.

Metallurgical operations in general. Preparation of Iron, Zinc, Copper, Lead, Tin, Mercury, and Silver, from their Ores-Alloys. Preparation, Properties, and Composition of Cast, Iron, Wrought-Iron, and Steel. Principal salts of Potassium, Sodium, Ammonium, Barium, Strontium, Calcium, Magnesium, Zinc, Aluminium, Chromium, Manganese, Iron, Nickel, Cobalt, Copper, Lead, Mercury, Silver, Gold, Platinum, Tin, Arsenic, Antimony, Bismuth.

Classification of Organic Compounds. Alcohol, Acetic Acid, Tartaric Acid, Citric Acid, Wood, Sugars, Starch, Coal-Gas, Coal-Tar, Oils, and Fats, Saponification, Urea.

Simple Qualitative Analysis. [*The Examination in Analysis is conducted practically.*]

SECOND BACHELOR OF SCIENCE EXAMINATION.

(a.) MATHEMATICS applied to Mechanics—

The Applications of Mathematics (as far as the Elements of the Differential and Integral Calculus) to

Kinematics.

Statics of Rigid Solids, Elastic and Perfectly Flexible Bodies, and Perfect Fluids.

Kinetics of a Particle and of Rigid Solids.

The Simpler Portions of Kinetics of Perfect Fluids.

(b.) ENGINEERING—

Properties of Materials.—General Properties, with special knowledge of their Strength, and the Purposes to which they are applied, with some knowledge of their Cost.

Strength and Stability of Structures Designed by Civil Engineers.—Metal and Wooden Bridges and Roofs. Arches in Masonry. Walls. Retaining Walls. Embankments. Cuttings. Breakwaters. Aqueducts. Pipes. Canals.

Strength and Forms of the Elements of Machinery.

Design of Combined Structures.—An elementary knowledge of the Design of Bridges and Roofs, of Reservoirs, Embankments, collecting and distributing Machinery of Waterworks, and of the main features of Railway construction, Harbours, and Drainage.

Design of Machinery.—An elementary knowledge of the construction of the Steam Engine, stationary and locomotive, of Prime Movers driven by Water, of Mill-wright work, and the general arrangement of Factories.

Prime Movers.—Sources of Power. Estimate of Power required. Measurement of work done. Application of the principles of Dynamics.

(c.) DRAWING—

The Student must be able to represent neatly, in the style used by engineers, Plans and Sections of Buildings and Machinery, and also to make Engineering Sketches with Figured dimensions from actual objects.

The candidate who successfully passes the two examinations will be recommended to the Senatus for the Degree.

DOCTOR OF SCIENCE EXAMINATION.

1. Every candidate for this Degree must prove that he has passed under a civil engineer in practice. He must then profess one, and not more than one, of the sub-divisions in each of the two following groups of subjects :—

- | | | |
|---------------------------|---|--|
| I.—PRACTICAL ENGINEERING, | { | (a.) The design of Machinery, with complete Drawings, Specifications and Estimates. |
| | { | (b.) The preparation of Designs, Specifications, and Estimates for Civil Engineering work. |
| II.—APPLIED SCIENCE. | { | (a.) Applied Mathematics. |
| | { | (b.) Chemistry. |
| | { | (c.) Geology. |
| | { | (d.) One Branch of Natural Philosophy. |
| | { | (e.) Telegraphy. |

2. The class of machinery, or the special engineering work on which the student is examined, will be chosen with reference to the special work in which he has been engaged during his pupilage.

3. The examinations in Group I. will consist in requiring the actual execution of the required work by the student within a month of his receiving the instructions of the Examiners. At the end of that time he will send in his drawings, specifications, estimates, and calculations. When these have been examined and approved, the student will be required to submit to an oral examination in connection with the work submitted as his own. By this examination the authenticity of the work will be tested.

4. A high degree of proficiency will be required in the special branch chosen by the student.

ALEX. CRUM BROWN, M.D., *Convener.*

SECTION C.—DEGREES OF BACHELOR AND DOCTOR IN PUBLIC HEALTH.

In consequence of the great demand which now exists for Medical Officers of Health, and the importance to the public of some means of ascertaining that members of the medical profession have specially studied the subject of Public Health, Science Degrees in the Department of Public Health have been instituted, under the following conditions :

1. The Candidate must be a Graduate in Medicine of a British University, or of such Colonial, Indian, or Foreign Universities as may be specially recognised by the University Court.

2. He must be matriculated for the year in which he appears for examination.

3. If the Candidate have not passed an *annus medicus* in the University of Edinburgh, he must, before presenting himself for examination, have attended in the University at least two courses of instruction, scientific or professional, bearing on the subjects of the Examinations.

4. There are two examinations for the Degree of Bachelor of Science in the Department of Public Health. A Candidate who has passed

the first examination may proceed to the second at the next period fixed for this, or at any subsequent Examination.

5. The Candidate must produce evidence that, either during his medical studies or subsequently, he has attended a course of lectures in which instruction was given on Public Health, and that he has studied Analytical Chemistry practically for three months with a recognised teacher.

6. The examinations are written, oral, and practical, and are conducted by University Examiners selected by the University Court.

7. The subjects of the examinations for the Degree of Bachelor of Science in the Department of Public Health are as follows :—

FIRST EXAMINATION.

(1.) CHEMISTRY—

Analysis of Air, Detection of Gaseous Emanations and other Impurities in the Atmosphere.

Analysis of Waters for Domestic Use, and Determination of the Nature and Amount of their Mineral and Organic Constituents. Detection, Chemical and Microscopical, of Adulterations in Articles of Food and Drink, and in Drugs.

Practical Examination, including at least two analytical researches.

(2.) PHYSICS—

Hydraulics and Hydrostatics, in reference to Water Supply, Drainage, and Sewerage.

Pneumatics, in reference to Warming and Ventilation.

Meteorology, and methods of making Meteorological Observations.

Mensuration, in reference to the Plans and Sections of Public and Private Buildings, Mines, Water-works, and Sewers.

(3.) SANITARY LAW—

Knowledge of the leading Sanitary Acts of Parliament.

(4.) VITAL STATISTICS—

Knowledge of statistical methods and data in reference to Population, Births, Marriages, and Deaths.

EXAMINATION—*First Day*, Chemistry and Physics. *Second Day*, Sanitary Law and Vital Statistics.

An oral examination, and an examination in Practical Chemistry in the Laboratory will take place a few days after the written examination.

SECOND EXAMINATION.

(1.) MEDICINE—

Origin, Nature, and Propagation of Epidemic and Contagious Diseases.

Prevention of Contagion and Infection.

Endemic Diseases and the Geographical distribution of Disease.

Insalubrious Trades.

Overcrowding.

Epizootics, including pathological changes.

(2.) PRACTICAL SANITATION—

Duties of a Health Officer in reference to,—

Water Supply.

Insalubrious Dwellings and Public Buildings.

Removal and Disposal of Sewage and other Refuse and Impurities.

Cemeteries.

Nuisances from Manufactories, &c.

Bad or Insufficient Supplies of Food.

Outbreaks of Zymotic Diseases.

Quarantine.

Disinfectants and Deodorisers.

Construction of permanent and temporary Hospitals.

The written examinations will take place on the 19th and 20th October 1877, and 1st and 2d April 1878. (*See p. 151*).

Candidates who intend to present themselves for examination in October are required to lodge with the *Secretary of the Senatus* proof of their being eligible, and to pay the fee on or before 1st October; and for the examination in April on or before 1st March.

DOCTOR OF SCIENCE.

A Bachelor of Science in the Department of Public Health may after the lapse of one year, proceed to the Degree of Doctor in the same department, on producing evidence that he has been engaged in Practical Sanitation since he received the Degree of Bachelor of Science, and on presenting a Thesis on some subject embraced in the Department of Public Health. Every such Thesis must be certified by the Candidate to have been composed by himself, and must be approved of by the Examiners.

The Candidate for the Degree of D.Sc. must lodge his Thesis with the Dean of the Medical Faculty on or before 31st January in the year in which he proposes to graduate. No Thesis will be approved which does not contain either the results of original observations on some subject embraced in the examination for B.Sc., or else a full digest and critical exposition of the opinions and researches of others on the subject selected by the candidate, accompanied by precise references to the publications quoted, so that due verification may be facilitated.

The fees for the Degrees in Science in the Department of Public Health shall be,—

For the first B.Sc. in Public Health Examination, £5 5 0

For the second B.Sc. in Public Health Examination, 5 5 0

For the Degree of D.Sc. in Public Health, . 5 5 0

£15 15 0

The same regulation as to the non-return of fees applies to this Department as to the others.

The Degrees in Science are conferred at the Graduation Ceremonial in April.

The following are recommended as books to be studied in preparation for the above Examinations :—

Parkes, E., Practical Hygiene.

Wilson, George, Hand-Book of Hygiene.

Smith, Edw., Manual for Public Officers of Health.

Michael, Corfield, and Wanklyn, Manual of Public Health, edited by E. Hart.

Eassie, Healthy Houses.

Latham, Baldwin, Sanitary Engineering.

Law, Henry, Rudiments of Civil Engineering.

Monro, Geo., The Public Health (Scotland) Act.

Buchan, Alex., Introductory Text-Book of Meteorology.

ALEX. CRUM BROWN, M.D., *Convener.*

SECTION D.—DEGREE OF DOCTOR IN MENTAL SCIENCE.

The Degree of Doctor of Science is open to Candidates highly prepared in the Mental Sciences.

1. The Candidate must be a Graduate, by examination, of a British or recognised Indian or Colonial University.

2. He must be matriculated for the year in which he appears for Examination.

3. He must have attended for at least one academic year in this University, and during that year he must have taken at least two classes on the subjects embraced in the Examination.

4. The Candidate must, in evidence of literary and philosophical culture, present *at least one month* before proceeding to Examination, a Thesis giving evidence of original research, on a subject in Mental Science previously approved by the Examiners. The Candidate can be admitted to examination only after this Thesis has been found satisfactory by the Examiners.

5. The Candidate may then proceed to the Examination, which shall include Logic and Metaphysics, Moral Philosophy, and the History of Philosophy, both Metaphysical and Moral, in particular on any of the subjects embraced in the following Programme :—

LOGIC AND METAPHYSICS.

(a) *Logic*.—The Province of Logic. Formal Logic—The Theory and details of Propositional and Syllogistic Forms, with their recent Developments, especially by Hamilton, De Morgan, and Boole. Fal-

lacies. Verbal Logic—Definition—the Predicables—Nominalism and Realism. Material Logic—The different sorts of Evidence. Authority and Science. The methods of Scientific Induction. The philosophical questions involved in the Theory of Induction.

(b) *Metaphysics*.—Personality—Classification of the facts of Consciousness, with relative Psychological and Physiological Questions. Externality and External Perception—Matter—Space and Time—Causation and Power. The origin, nature, and limits of Human Knowledge—The Finite and the Infinite.

MORAL PHILOSOPHY.

Moral Actions. The Moral Faculty. Desires and Emotions. The Will. Moral Obligation. The Existence and Attributes of God. The relation of Absolute Sovereignty to finite existence, and specially to human will. The Origin of Evil. The Immortality of the Soul. Practical Ethics, including the laws which regulate the formation of moral character, and the guidance of individual and social life.

HISTORY OF PHILOSOPHY—METAPHYSICAL.

The History of Logic—Formal and Inductive. A general knowledge of the History of Ancient and Modern Psychology and Metaphysics, Special Study of Plato, or Aristotle. Special study of Locke, Berkeley, Hume, and Kant.

HISTORY OF PHILOSOPHY—MORAL.

The relation of the pre-Socratic Philosophy to Moral Philosophy. The Socratic theory, as in the *Memorabilia*. The Platonic theory, as in the *Republic*. The Aristotelian, Stoic, and Epicurean theories. The theories of Hobbes, Spinoza, Cudworth, Price, Hume, and Kant, with the later developments of Intuitionist and Utilitarian Ethics.

6. The Examinations will be held annually in *April*. Candidates may be tested both orally and by writing.

7. Those who have taken the Degree of Master of Arts in this University with First-Class Honours in the Department of Mental Philosophy, may obtain the Degree of Doctor in Mental Science when a period of not less than three years shall have elapsed after they have obtained such Honours, by submitting a sufficient Thesis on a subject approved by the Examiners, and on giving such other evidence of increased proficiency in the Mental Sciences as may be satisfactory to the Senatus.

8. The Fee for the Degree of Doctor in Mental Science is £7, 7s. The Fee must be paid to the *Secretary of the Senatus* at least ten days before the date of Examination, (or in the case of Candidates admitted under Rule 7, at least ten days before Graduation), when the Diploma and Certificates of the Candidate must be shown to the Dean of the

Faculty of Arts. In the event of the Candidate not passing, the fee is not returned, but he may appear at one subsequent Examination without paying an extra fee, and at any future Examination on paying one-half of the fee.

A. C. FRASER.
Dean of Faculty of Arts.

SECTION E.—DEGREE OF DOCTOR OF SCIENCE IN PHILOLOGY.

The Degree of Doctor of Science is open to Candidates highly proficient in Philology.

1. The Candidate must be a Graduate, by examination, of a British or recognised Indian or Colonial University.

2. He must be matriculated for the year in which he appears for Examination.

3. He must have attended for at least one academic year at this University, and during that year he must have taken at least two classes on the subjects embraced in the Examination.

4. The Candidate must present, *at least one month* before Examination, giving evidence of Original Research, a Dissertation on some point of Philological or Archæological Research on a subject previously approved by the Examiners. Mere compilations will not be accepted. The Candidate can be admitted to examination only after this Dissertation has been found satisfactory by the Examiners.

5. The Candidate may then offer himself for Examination in any one of the following branches:—

1. The Latin and Greek Languages.

2. The Semitic Languages.

It is expected that Candidates for a Degree in Philology, in this branch, besides being critically acquainted with the Book of Job and with the Psalms in Hebrew and the Gospels and Acts in Syriac, should know the first four Surat or Chapters of the Koran, and be capable of turning sentences of English into Hebrew, Syriac, and Arabic—supplying, at the same time, the proper vowels and diacritical marks.

3. The Sanskrit Language and Comparative Philology.*

(a.) Sanskrit Language and Literature. Translation of passages from current Sanskrit Authors into English, and from English into Sanskrit.

(b.) Comparative Philology of the Indo-European Languages, Acquaintance with the principles of the Science, as laid down in the Comparative Grammar of Bopp, Schleicher's "Compendium," and Müller's and Whitney's "Lectures."

* Dr John Muir has offered a sum of £100 to the most distinguished candidate who shall first succeed in taking the degree of D.Sc. in the Department of Sanskrit and Comparative Philology

(c.) Philosophy of Language. Candidates must shew some degree of familiarity with the works of Lord Monboddo, "On the Origin and Progress of Language;" Horne Tooke's "Diversions of Purley;" Lersch, "Sprach-philosophie der Alten;" Heyse, "System der Sprachwissenschaft;" Schœmann, "Die Lehre von den Redetheilen;" Steinthal, "Der Ursprung der Sprache."

6. Candidates for the Degree of Doctor of Science in Classical Philology will be tested in respect of their general Scholarship by translation from Latin and Greek Authors, and by composition in Latin and Greek Prose. They will further be required to profess a critical knowledge of some special Department or Epoch of Classical Literature, or of some three or four of the more difficult and important Classical Writers.

7. The Examinations will be held annually in *April*. Candidates may be tested both orally and by writing.

8. Those who have taken the degree of Master of Arts in this University, with First-Class Honours in the Department of Classical Literature, may obtain the Degree of Doctor of Science in Philology, when a period of not less than three years shall have elapsed after they have obtained such Honours, by submitting a sufficient Thesis on a subject approved by the Examiners, and by such other evidence of increased proficiency in Philological Research as may be satisfactory to the Senatus.

9. The Fee for the Degree of Doctor of Science in Philology is £7, 7s. The Fee must be paid to the *Secretary of the Senatus* at least ten days before the date of Examination, (or in the case of Candidates admitted under Rule 7, at least ten days before Graduation,) when the Diploma and Certificates must be shown to the Dean of the Faculty of Arts. The same regulation as to the non-return of fees applies with reference to this Section as to Section D.

A. C. FRASER,
Dean of Faculty of Arts.

GRADUATES IN SCIENCE.

I.—DEGREE OF D.Sc.

23D APRIL 1878.

In the Department of Mental Science.

Jacob Gould Schurman, B.A.

In the Department of Chemistry.

William Inglis Clark, B.Sc.

In the Department of Mathematics.

Alexander Macfarlane, M.A., B.Sc.

II.—DEGREE OF B.Sc.

In the Department of Public Health.

24TH NOVEMBER 1877.

Frederick W. Barry, M.D., Scotland.

23D APRIL 1878.

John Brown, M.D.

John Berry Haycraft, M.B., C.M.

John Treharne, M.B., C.M.

In the Department of the Mathematical Sciences.

William Thomson.

In the Department of the Physical Experimental Sciences.

John Adrian Blaikie.

James Johnstone Dobbie, M.A.

In the Department of the Natural Sciences.

24TH NOVEMBER 1877.

Robert Alex. Lundie, England.

23D APRIL 1878.

William A. Haswell.

In the Department of Engineering.

James Alfred Ewing.

SCIENCE FELLOWSHIP AND SCHOLARSHIPS.

The following Fellowship and Scholarships are open to Graduates in Science :—

1. The *Falconer Memorial Fellowship*, in Palæontology and Geology, of the annual value of about £100, tenable for two years or more, according to circumstance (*See* under Fellowships, &c.), is open to Graduates in Science or Medicine of this University of not more than three years' standing at the date of the Examination.

2. The *Baxter Physical Science Scholarship*, tenable for two years, is awarded to the most eminent of the Bachelors of Science who have passed their Examinations in the Physical Sciences, including Experimental Philosophy and Chemistry, either in the year preceding a vacancy or in the year in which a vacancy occurs. The Scholarship is held subject to the condition that the holder shall have taken the Degree of Doctor of Science in the first year of his tenure of it.

Annual value, £60. Next appointment may be made in November 1878. The present holder is Aghornath Chattopádhyaý, B.Sc., who obtained the Scholarship in May 1876.

3. The *Baxter Natural Science Scholarship*, tenable for two years, is awarded to the most eminent of the Bachelors of Science who have passed their Examinations in the department of Natural Sciences, including Botany, Zoology, Physiology, and Geology, either in the year preceding a vacancy or in the year in which a vacancy occurs. Annual value, £60. The Scholarship is held subject to the condition that the holder shall have taken the Degree of Doctor of Science in the first year of his tenure of it. The present holder of the Scholarship is W. J. Dodds, B.Sc., to whom it was awarded in November 1876.

The next appointment may take place in November 1878.

NOTICE AS TO SCIENCE EXAMINATIONS FOR 1878-79.

Sections A. and B.

Preliminary Examinations will take place on Tuesday, Wednesday, Thursday, and Friday, 8th, 9th, 10th, and 11th October 1878; and on Tuesday, Wednesday, Thursday, and Friday, 11th, 12th, 13th, and 14th March 1879, at 9, 11.30, and 2 o'clock each day.

Examination on Tuesdays.—English, Arithmetic, and Latin.

Examination on Wednesdays.—Elements of Mathematics, including Algebra, Elements of Mechanics, and French.

Examination on Thursdays.—German, Logic, and Natural Philosophy.

Examination on Fridays.—Higher Mathematics, Greek, and Moral Philosophy.

For further particulars as to the Examination in these subjects see Medical Preliminary Examination in Arts, in CALENDAR.

MATHEMATICAL, PHYSICAL, AND NATURAL SCIENCES.

First B.Sc. Examination in Mathematics and Natural Philosophy, will take place in October and April, at the same time as the examination in Arts on these subjects, viz., 21st, 22d, and 23d October 1878, and 12th, 14th, and 15th April 1879.

First B.Sc. Examination in Chemistry, Botany, and Zoology, will take place in April and October, at the same time as the First Medical Professional Examination, viz., 17th and 18th October 1878, and 1st and 2d April 1879.

Second B.Sc. Examinations in the Mathematical Sciences and in the Physical Experimental Sciences (except in Chemistry) will take place at the same time as the Examination for the Degree of M.A. ; and the Examination in the Natural Sciences and in Chemistry will take place at the same time as the First Medical Professional Examination.

ENGINEERING.

First B.Sc. Examination. The Examination in Chemistry on the 17th October 1878, and 1st April 1879, at 11 o'clock.

In Mathematics and Natural Philosophy, on 21st, 22d, and 23d October 1878, and 12th, 14th, and 15th April 1879.

Second B.Sc. Examination. The Examination in Engineering and Drawing will take place on 17th and 18th October 1878, and 1st and 2d April 1879.

In Mathematics applied to Mechanics, on 23d October 1878, and 15th April 1879.

Examinations for D.Sc. in Sections A, B, and C, will be held in April and October. Candidates must present their Theses at least one month before the date of the Examination.

Section C.—PUBLIC HEALTH.

First B.Sc. Examination, 17th Oct. 1878, and 1st April 1879. Chemistry, 11 to 1 ; Physics, 2 to 5.

18th. Oct. 1878, and 2d April 1879. Sanitary Law, 11 to 1 ; Vital Statistics, 2 to 4.

19th Oct. 1878 and 3d April 1879. Practical Examination in Chemistry, 10 to 4.

Second B.Sc. Examination, 25th Oct. 1878, and 9th April 1879. Medicine, 11 to 1 ; Practical Sanitation, 2 to 5.

Sections D and E.

D.Sc. IN MENTAL SCIENCE AND PHILOLOGY.

Thursday 17th April 1879, at 9 o'clock, is fixed for the commencement of the Examinations of Candidates for the Degree of Doctor in Mental Science and of Doctor in Philology.

Candidates must present their Theses to the Dean of the Faculty of Arts at least one month before the date of the Examination. They must send their names and addresses to the *Secretary of the Senatus*, and arrange with the Dean the subject of their Theses so as to admit of the Theses being ready in due time.

Graduation in Divinity.

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REGULATIONS FOR THE DEGREE OF BACHELOR OF DIVINITY.

APPROVED OF BY THE CHANCELLOR OF THE UNIVERSITY,
17th OCTOBER 1870, and 17th April 1872.

I. No one shall be admitted as a Candidate for the Degree of Bachelor of Divinity unless he be a Graduate in Arts of one of the Universities of Scotland, or of England, or of Ireland, or of a Colonial University, whose degrees shall, for this purpose, have been specially recognised by the University Court.

II. This Degree shall be conferred only after the Candidate has completed his Theological Curriculum with a view to the ministry in the Church or Denomination to which he belongs, and after he has passed a satisfactory examination in the various branches of Theology which are taught in this University.

III. Candidates who are not Masters of Arts of the University of Edinburgh must have attended two classes in one or more of the Faculties of this University.

IV. The subjects of examination for the Degree of Bachelor of Divinity shall be arranged in two departments :—The First Department embracing—(1) Hebrew, and (2) Apologetic Theology, or the Evidences of Natural and Revealed Religion ; and the Second Department embracing—(1) Church History, (2) Systematic Theology, and (3) Biblical Criticism and Biblical Antiquities.

V. Candidates who have completed their Theological Course may be examined in either of these departments, and may defer to some future occasion their examination in the other department, provided always that there be not a greater interval than two years between their two examinations.

VI. Students who have completed all the Sessions but one of their Theological Course, may be admitted to examination in the first department.

VII. The examinations shall be conducted by the Professors of the Theological Faculty with the assistance of two Examiners, being Bachelors of Divinity of one of the Universities of Scotland, to be nominated by the University Court.

VIII. The Examination in the First Department shall take place at, or soon after, the commencement of the Theological Session ; and the Examination in the Second Department at, or soon after, the close of the Theological Session—power being reserved to the Senatus Academicus, should they see cause, to appoint the examination in both departments to take place at either of these periods.

IX. The Fee for examination shall be Three Guineas, payable in

advance ; but when the examination is undergone on different occasions, a Fee of two Guineas shall be paid prior to the first, and the remaining One Guinea prior to the last examination.

There will be an examination in both departments on Thursday 14th November 1878, and following days ; and also on Monday 7th April 1879, and following days. Candidates are required to communicate their names, together with evidence of their being qualified in terms of the above Regulations, to the Dean of the Faculty of Theology, at least one week before the day appointed for the Examination.

The subjects of examination are as follows :—

DEPARTMENT I.

I. *Apologetic Theology*—

(1.) Antitheistic theories. (2.) Possibility and Necessity of Revelation—Miracles.

II. *Hebrew*—

Questions in Grammar, and from the 31st to the 60th Psalm, inclusive, Book of Joshua, and chapters v.-x. inclusive of Isaiah.

DEPARTMENT II.

I. *Systematic Theology*—

(1.) The Divine Attributes. (2.) Doctrine of the Trinity. (3.) The Person of Christ.

II. *Church History*—

(1.) The Main Facts in the Development of the Constitution, Doctrine, and Worship of the Church during the first Four Centuries. (2.) The Progress of the Reformation in Scotland to the close of the 16th Century.

III. *Biblical Criticism and Biblical Antiquities*—

Manuscripts, Versions, Critical Editions, and Disputed Passages of the New Testament. See "Scrivener's Introduction," 2d edition.

The Theocracy (Ehler's Old Testament Theology, vol. i., pp. 289-428 ; vol. ii., pp. 1-68, 439-479.

Deuteronomy.

Canon of the New Testament in Second Century.

A. H. CHARTERIS, D.D.,

Dean of the Faculty of Divinity.

BACHELORS OF DIVINITY.

23d April 1878.

George Ferries, M.A., Scotland.
 George Gardiner, M.A., Scotland.
 William Ross, M.A., Scotland.

DEGREE OF DOCTOR OF DIVINITY (D.D.).

The Degree of Doctor of Divinity is conferred *honoris causâ tantum*. The Register of Doctors of Divinity commences in 1709, with the names of Edmund Calamy, Daniel Williams, and Joshua Oldfield. The names of Evans, Harris, and Isaac Watts follow in 1728. The Register now includes above 300 names.

The following is a list of those who have received the Degree of Doctor of Divinity within the last twenty-nine years :—

1849.

Wm. Hope Meiklejohn, Minister of the Church of Scotland, Calcutta.
 William Glover, one of the Ministers of Edinburgh.
 Thos. Guthrie, one of the Ministers of St John's Free Church, Edinb.
 William Stevenson, Professor of Divinity and Ecclesiastical History.
 John Smart, Minister of the United Presbyterian Church, Leith.

1854.

James Veitch, one of the Ministers of St Cuthbert's, Edinburgh.
 James Grierson, Minister of the Free Church, Errol.
 William Logie, Minister of Kirkwall.

1855.

John Lillie, New York.
 John Forrest, Charlestown, South Carolina.
 Peter Colin Campbell, Principal of the University of Aberdeen.
 John Cairns, Minister of the U. P. Church, Berwick-upon-Tweed.
 John Taylor, Prof. of Divinity in the Presbyterian College of Canada.

1860.

Samuel Richardson, Minister of Penninghame.
 Sir H. W. Moncreiff, Bart., Minister of St. Cuthbert's Free Ch., Edin.
 John Cunningham, Minister of Crieff.
 Thomas Burns, Minister of Free Church, Otago.

1864.

Zachary Macaulay Hamilton, Minister of Bressay.

Robert Menzies, Minister of Hoddam.

W. Hanna, LL.D., one of the Ministers of St John's Free Ch., Edin.

William Garden Blaikie, Minister of Pilrig Free Church, Edinburgh.

And. Kennedy Hutcheson Boyd, Minister of St Bernard's Parish, Edin.

A. Roberts, Minister of the Presbyterian Church, Carlton Hill, London.

1865.

Robert S. Candlish, Principal of New College, Edinburgh.

Josiah Leslie Porter, Professor of Biblical Criticism, Belfast.

Lewis Edwards, Principal of the College of Welsh Methodists at Bala.

1867.

George Walker, Minister of Kinnell.

Thomas Smith, M.A., Minister of Cowgate-head Free Church.

David Pitcairn, late Minister of Evie and Randall.

Maxwell Nicholson, St Stephen's Church, Edinburgh.

1868.

Joseph Mullens, India.

Richard Paul Blakeney, LL.D., Rector of Christ Church, Birkenhead.

Archibald Hamilton Charteris, Minister of Park Church, Glasgow.

And. B. Davidson, LL.D., Professor of Hebrew, Free College, Edin.

Thomas Finlayson, Minister of the United Presbyterian Church, Edin.

William Lee, Minister of Roxburgh.

William Robertson, Minister of New Greyfriars, Edinburgh.

R. Selkirk Scott, Minister of the U. P. Church, Manchester.

1869.

Frederick Crombie, Professor of Biblical Criticism, University of St Andrews.

John Ker, Minister of the U. P. Church, Glasgow.

Kenneth Macleay Phin, Minister of Galashiels.

Henry Robert Reynolds, Principal of Cheshunt Coll., Herts.

George Smeaton, Professor of Exegetical Theology, Free Church Coll. Edinburgh.

William Smith, Minister of North Leith.

John Stoughton, Minister of the Independent Church, Kensington.

1870.

Alexander L. R. Foote, Minister of West Free Church, Brechin.

John Harrison, Vicar of Fenwick.

Enoch Mellor, Minister of the Congregational Church, Halifax.

George Ritchie, Minister of Jedburgh.

Archibald Stewart, Minister of Glasserton.

William Wilson, Minister of St Paul's Free Church, Dundee.

1871.

James Cochrane, Minister of Cupar.

Alexander Leitch, Minister of U. P. Church, Wigton, Cumberland.

James M'Gregor, Professor of Systematic Theology, Free Church College, Edinburgh.

James Walker, Minister of the F. C., Carnwath.

1872.

John Kennedy, Minister of the Congregational Church, Stepney, London.

Hugh Martin, Emeritus Minister of Free Greyfriars' Church, Edinburgh.

Robert Moffat, Missionary to South Africa.

Robert Horne Stevenson, Minister of St George's Church, Edinburgh, and Moderator of the General Assembly of the Church of Scotland.

1873.

Marcus Dods, Renfield Free Church, Glasgow.

J. Oswald Dykes, Regent Square Presbyterian Church, London.

John Forbes, Professor of Oriental Languages University of Aberdeen.

John Stuart, Minister of St Andrews Church, Edinburgh.

1874.

Andrew A. Bonar, Minister of Finnieston Free Church, Glasgow.

John Christison, M.A., Minister of Biggar.

William Fiddian Moulton, Professor of Classics, Wesleyan College, Richmond.

Robert Herbert Story, Minister of Roseneath.

1875.

Joseph Edkins, Missionary, China.

Alexander Moody Stuart, Minister of Free St Luke's, Edinburgh.

1876.

A. M. Fairbairn, Minister of Free Church, Newhaven.

Robert Flint, Professor of Divinity, University of Edinburgh.

Robert Johnston, Parliamentary Road U.P. Church, Glasgow.

M. de la Harpe, Professor of Oriental Languages and Old Testament Exegesis in the School of the Evangelical Society of Geneva.

M. Lantaret, Minister of the Waldensian Church, Pomaret.

John Wilson, Minister of Dunning.

1877.

Alexander Maclaren, Minister of the Baptist Church, Manchester.

W. B. Pope, Theological Tutor, Wesleyan College, Didsbury.

John Rogers, Professor of Sacred Rhetoric, General Assembly's College, Belfast.

W. Sanday, M.A., Oxon., Principal of Bishop Hatfield's Hall, University of Durham.

1878.

- John Birrell, M.A., Professor of Hebrew and Oriental Languages,
University of St Andrews.
A. M. Fairbairn, M.A., Principal of Airedale College, Bradford.
Stanley Leathes, M.A., Prebendary of St Pauls, Professor of Hebrew,
King's College, London.
James Russell, M.A., Minister of Yarrow.
Adolph Saphir, B.A., Minister of the English Presbyterian Church,
Notting Hill, London.
Robert Stevenson, Minister of Dalry, Ayrshire.

Graduation in Law.

DEGREES OF BACHELOR OF LAWS (LL.B), AND BACHELOR OF LAW (B.L).

The Degree of Bachelor of Laws was instituted by an Ordinance of the Universities' Commissioners, dated the 12th July 1862. The Degree of Bachelor of Law (B.L.), was instituted by the University, and approved by Her Majesty by order in Council, dated 6th August 1874.

"I. No one shall hereafter be admitted as a candidate for the Degree of Bachelor of Laws (LL.B.) . . . unless he be a Graduate in Arts of one of the Universities of Scotland, or of England or Ireland, or a Graduate in Arts of a colonial or foreign University, whose Degree may, for this purpose, have been specially recognised by the University Court.

"II. The Course of Study in Law necessary for the Degree of Bachelor of Laws shall extend over three Academical years, and shall include attendance on a Distinct Course in each of the six following Departments, viz. :—

- | | | |
|-----------------------------------|---|---|
| 1. CIVIL LAW..... | } | During Courses of not less than Eighty Lectures each. |
| 2. LAW OF SCOTLAND..... | | |
| 3. CONVEYANCING | | |
| 4. PUBLIC LAW | } | During Courses of not less than Forty Lectures each.* |
| 5. CONSTITUTIONAL LAW and HISTORY | | |
| 6. MEDICAL JURISPRUDENCE..... | | |

"III. No one shall hereafter be admitted to Examination as a candidate for the Degree of Bachelor of Laws, until he has completed the

* The Courses of Lectures attended must, under the present regulations, be delivered by Professors in some Scottish University.

course of study above prescribed ; and no one shall be admitted as a candidate in any University unless two at least of the three Academical years of his course of study in Law shall have been in such University.

“IV. Candidates for the Degree of Bachelor of Laws shall be examined, both in writing and *vivâ voce*, on each of the six Departments of Law above specified.

“V. Each candidate must satisfy the Examiners that he possesses a competent knowledge of Law in each of the said Departments ; and the Examiners shall further, in judging of the qualifications of candidates, have special regard to their acquirements in the two Departments of Public Law and Constitutional Law and History.

“VI. Except, as hereinafter provided, with regard to the University of Edinburgh, the Examiners for Degrees in Law in each of the said Universities shall be six in number, and there shall always be one Examiner specially qualified for each one of the six Departments above specified ; and where the Professors in the Faculty of Law in any University do not furnish the requisite number of Examiners duly qualified, the number shall be made up by the appointment of additional Examiners by the University Court : Provided always, that no person shall be appointed an additional Examiner in any University unless he be a Professor in the Faculty of Law in a Scottish University, or shall have attained the Degree of Bachelor of Laws, in accordance with the provisions of this Ordinance.

“IX. Each candidate for the Degree of Bachelor of Laws shall pay a Fee of Five Guineas in respect of his Examination for the Degree.

“XI. Besides the Degrees in Law above specified, there shall be in the University of Edinburgh a second Degree in Law granted after Examination—namely, the Degree of Bachelor of Law (B.L.).

“XII. No one shall be admitted to Examination as a Candidate for the Degree of Bachelor of Law in the University of Edinburgh, unless he be a Graduate in Arts, qualified as prescribed in Section I., or unless he shall have studied in one of the Universities therein mentioned, during at least one Academical year, one or more of the subjects included in the course of Study in the Faculty of Arts, and shall have passed a satisfactory Examination in (1.) Latin, (2.) Greek, French, or German, and (3.) any two of the following subjects—namely, Logic, Moral Philosophy, and Mathematics. The Examinations shall be conducted by Examiners in Arts, together with some of the Law Examiners.*

“XIII. The course of study in Law necessary for the Degree of

* Candidates must pass all these subjects at the ordinary Examinations for the Degree of M.A. in April and October, except French and German, in which a special day will be fixed for Examination.

Bachelor of Law in the University of Edinburgh shall extend over at least two Academical years, and shall include attendance on a distinct course, as specified in Section II., in each of the first three of the Departments therein mentioned, and in any one of the other three Departments, and no one shall be admitted to Examination as a Candidate for the said Degree, unless two Academical years of his course of Study in Law shall have been in the University of Edinburgh.

“XIV. The Examination for the said Degree of Bachelor of Law in the University of Edinburgh shall be conducted at the same time, and in the same manner, as that for the Degree of Bachelor of Laws, and the Candidates shall be examined in each of the Departments of Law on which they shall have given attendance, as above required.

“XV. The Examiners for Degrees in Law in the University of Edinburgh shall be the Professors in the Faculty of Law, together with two additional Examiners appointed by the University Court from among those who have obtained the Degree of Bachelor of Laws, in accordance with the provisions of this Ordinance. Each of such additional Examiners shall hold office for the term of three years.

“XVI. The Fee to be paid by each Candidate for the Degree of Bachelor of Law in the University of Edinburgh shall be the same as is provided by Section IX. with reference to Examinations for the Degree of Bachelor of Laws.

Gentlemen proposing to enter for either of these Degrees are requested to apply for information to, and to lodge their names with the Clerk to the University. Candidates for the Degree of LL.B. must produce evidence of their being Graduates in Arts.

The next Examination will commence on Monday, 24th June 1878.

In the CIVIL LAW the examination will be on the History of the Law of Rome; on its Principles as explained in the Institutes of Gaius and Justinian; and on the 6th and 45th Books of the Digest.

In the LAW OF SCOTLAND the subject of examination will be the Municipal Civil Law, and the works of Mr Erskine and Mr G. J. Bell are recommended to candidates.

In CONVEYANCING, the subject of Examination will be the Constitution and Transmission of irredeemable Heritable Rights by deeds *inter vivos* and *mortis causa*.

In PUBLIC LAW the subjects will be the following:—1st, *Natural Law* in relation to Ethics on the one hand, and to Positive Law on the other.) (*Text-Books*—Lorimer's "Institutes of Law," and Ahrens' "Cours de Droit Naturel"). 2nd, *Public International Law*, doctrinally and historically treated. (*Text-Books*—Wheaton's History;

Kent's "International Law" by Abdy; Bluntschli's "Moderne Völkerrecht," of which there is a French translation entitled "Droit International Codifié"). 3d, *Private International Law*, as explained in the 8th vol. of Savigny's "System des heutigen römischen Rechts" (of which there is both an English and a French translation).

In CONSTITUTIONAL LAW AND HISTORY the subjects of examination will be as follows:—1. The Constitutional Progress of England down to, and inclusive of, the reign of Edward I. Reference may be made to Stubbs's "Constitutional History of England, 1874;" and Hallam's "Middle Ages," chap. viii. 2. The Treaty of Union between England and Scotland. Reference may be made to Hallam's "Constitutional History," Vol. III., chap. xvii.; Burton's History of Scotland from the Revolution," chaps. x., xi., and xii., and the Acts of the Last Scotch Parliament, 1706," c. 6, 7, and 8. 3. The Law relating to the Rights and Privileges of Parliament in England. Reference may be made to Erskine May's Treatise on Parliamentary Procedure, and to Blackstone's Commentaries.

In MEDICAL JURISPRUDENCE the subjects will be—1. Death by Asphyxia. 2. Poisoning by Phosphorus, by Prussic Acid, and by Aconite. 3. Infanticide. 4. Criminal Responsibility.

Æ. J. G. MACKAY.

Dean of the Faculty of Law.

[*Note.*—Candidates for the degree of Bachelor of Law are required to pass the preliminary subjects at the ordinary examinations for the Degree of M.A. in April and October, except French and German, in which a special day will be fixed for examination. See subjects prescribed under Pass Examination for Degree of M.A.]

DEGREE OF LL.B.

1866.

William F. Hunter, M.A., Edinburgh.
Andrew Jackson, M.A., Edinburgh.
Thomas Mure Mure, M.A., Edinburgh.
Alexander Thorburn, M.A., Edinburgh.

1867.

Æneas J. G. Mackay, M.A., Oxon.

1868.

John M'Kie Lees, M.A.
Charles Archibald Millie, M.A.

1869.

William Hunter.

1870.

John Hastie, M.A.
John Kirkpatrick, M.A., Cantab.
David Lang, M.A.
John C. Lorimer, M.A., Glasgow.
William Stevenson Purves, M.A., Glasgow.
Roderick H. G. Scott, M.A.

1871.

George Cotton, M.A.
James Galbraith, M.A.
Henry Goudy, M.A.
Thomas Kerr, M.A.
Allan Macdonald, M.A.
William C. Smith, M.A.

1872.

George Readman, M.A., Glasgow.
John Arbuthnott Trail, M.A., Aberdeen.

1874.

James Donaldson Fairley, M.A., Glasgow.

1875.

Thomas Shaw, M.A., Edinburgh.

1876.

Peter J. Anderson, M.A., Aberdeen.

1877.

James Macbride Dickson, M.A.
John Munn Gun, M.A.

DEGREE OF B.L.

1875.

Robert Hislop.

1876.

James Macbride Dickson.

1877.

James Mackenzie Leitch.
George Rankin.

DEGREE OF DOCTOR OF LAWS (LL.D.)

The Degree of Doctor of Laws is conferred *honoris causâ tantum*. It was first granted in 1695. Previously to 1751 it had been conferred on only seven persons. Since then about 130 names, including some of the most distinguished in Europe, have been added to the Register of Doctor of Laws in the University.

The following is a list of those upon whom the Degree of Doctor of Laws has been conferred within recent years :—

1845.

Right Hon. Earl Russell.

1847.

Richard Owen, London.

1848.

George Biddell Airy, Astronomer-Royal.

1853.

The Chevalier Bunsen, Prussian Ambassador, London.

1854.

George Finlay.
William Freund.

1855.

Rev. William Anderson, Professor of History, Agra College, East Indies.

1856.

John Harkness, late Principal of the Elphinstone Institution, Bombay.

Rev. John Young.

James Stephen, Professor of English Law and Jurisprudence in King's College, London.

1858.

James Frederick Ferrier, Advocate, Professor of Moral Philosophy, St Andrews.

Right Hon. Lord Elcho.

John Schank More, late Professor of Scots Law.

Right Hon. John Inglis, of Glencorse, Lord Justice-General.

James Moncreiff, M.P., Dean of the Faculty of Advocates.

Charles M'Douall, Professor of Greek, Queen's University, Ireland.

1859.

Right Hon. Lord Campbell, late Lord Chancellor.

Sir Andrew Smith, late Director-General of the Army Med.-Dep.

Right Hon. Lord Brougham and Vaux, Chancellor of the University.

1860.

Right Hon. W. E. Gladstone, Lord Rector of the University.

Very Rev. Dean Ramsay.

Hon. Lord Neaves.
James David Forbes, Principal of the United College, St Andrews.
Hon. Lord Barcaple.
Rev. Henry Longueville Mansel, Professor of Moral and Metaphysical
Philosophy, Oxford.
Archibald Campbell Swinton, formerly Professor of Civil Law.
Lord Colonsay.
William Stokes, M.D., Regius Professor of Physic in the University of
Dublin.
John Forster, London.
William Sharpey, Professor of Anatomy, University College, London.
Rev. William Reeves, D.D., University of Dublin.
William Allen Miller, Professor of Chemistry, King's College, London
William Fairbairn, F.R.S., Manchester.
Sir Charles F. Shand, Chief-Justice of the Mauritius.

1861.

Right Hon. Sir John M'Neill, G.C.B.
Sir William Stirling-Maxwell of Pollok, M.P.
John Muir, D.C.L.

1862.

Sir William Jardine of Applegarth, Bart.

1863.

Right Hon. Viscount Palmerston, K.G.
William Henry Fox Talbot, F.R.S.
James Pillans, Professor of Humanity, University of Edinburgh.

1864.

David Laing, Librarian to the Society of Writers to the Signet.
John Hill Burton, Advocate.
Joseph Robertson, H.M. Register House.

1865.

Sir Alexander Grant, Bart.
W. F. Skene, F.R.S.E.
George Dundas, Sheriff of Selkirkshire.
A. Keith Johnston, F.R.S.E.
Balfour Stewart, F.R.S.

1866.

Thomas Erskine of Linlathen.
Thomas Henry Huxley, Professor of Natural History, School of Mines,
and Hunterian Professor of Comparative Anatomy in the Royal
College of Surgeons of England.
John Rae, M.D.
Andrew Crombie Ramsay, Director of the Geological Survey of Great
Britain.
John Tyndall, Professor of Natural Philosophy in the Royal Institution,
London.

H. R. H. PRINCE ALFRED.

Andrew Edgar, Barrister-at-law, London.

1867.

James Hutchison Stirling.

Right Hon. Benjamin Disraeli.

Right Hon. Robert Lowe.

1868.

George Smith, Serampore.

Rev. Henry Baker Tristram, F.R.S., Master of Greatham Hospital.

Rev. William Veitch, Edinburgh.

1869.

Matthew Arnold, H.M.I.S.

Alexander Bain, Professor of Logic, University of Aberdeen.

Colonel J. A. Ballard, C.B.

Andrew Rutherford Clark, Advocate.

Edward S. Gordon, Q.C.

George Moir, Advocate.

Lyon Playfair, C.B., M.P.

T. Collins Simon.

William Swan, Professor of Natural Philosophy, University of St Andrews.

Sir William Thomson, Professor of Natural Philosophy, University of Glasgow.

Sir Charles Wheatstone, F.R.S.

Sir Roderick Impey Murchison, Bart., Director of the Geological Survey of Great Britain.

1870.

Sir Colin Blackburn, one of the Judges of the Queen's Bench.

Thomas Harvey, Rector of the Edinburgh Academy.

David Milne Home, of Wedderburn, Advocate.

Rev. John Gibson Macvicar, D.D., Minister of Moffat.

James Clerk Maxwell, F.R.S.

Charles Murchison, M.D., F.R.S.

William Wright, D.C.L., MS. Department, British Museum.

Henry Wentworth Acland, Professor of Medicine in the University of Oxford.

Max Müller, Professor of Philology in the University of Oxford.

1871.

Robert Carruthers, Inverness.

William Forsyth, Barrister-at-Law, Q.C.

Patrick Fraser, Sheriff of Renfrewshire.

Shadworth H. Hodgson, B.A. Oxon.

Right Hon. George Young, Q.C., M.P., Lord Advocate of Scotland.

Thomas Andrews, Vice-President of Queen's College, Belfast.

W. B. Carpenter, M.D., Registrar of the University of London.
Rev. James Challis, Plumian Professor of Astronomy and Experimental Physics, University of Cambridge.
Auguste Colding, Denmark.
John Peter Gassiot.
William Huggins.
Jules Janssen.
James Prescott Joule.
G. E. Paget, M.D., Cantab.
W. Spottiswoode, Treasurer of the Royal Society.
George Gabriel Stokes, Lucasian Professor of Mathematics in the University of Cambridge.
James Joseph Sylvester, late Professor of Mathematics at Woolwich.
Allen Thomson, M.D., Professor of Anatomy, University of Glasgow.
Pierre Joseph Van Beneden, Professor of Comparative Anatomy, University of Louvain.

1872.

Sir Robert Christison, Bart., M.D., D.C.L., Professor of Materia Medica, University.
Hugh Andrew Johnston Munro, Professor of Latin, University of Cambridge.
Henry James Stephen Smith, Savilian Professor of Geometry, Oxford.
William Smith, Actuary, Vice-President of the Phil. Institution, Edinburgh.
John Veitch, Professor of Logic and Rhetoric, University of Glasgow.
William Chambers of Glenormiston.
John Joseph Ignatius Döllinger, Rector of the University of Munich.

1873.

George James Allman, M.D., Emeritus Professor of Natural History.
John Aitken Carlyle, M.D.
John M. Lindsay, Director of Chancery.
E. L. Lushington, Professor of Greek in the University of Glasgow.

1874.

His Grace Walter-Francis Montagu-Douglas-Scott, Duke of Buccleuch and Queensberry,
Thomas Spencer Baynes, Professor of Logic, University of St Andrews.
John Brown, M.D.
W. Gillespie Dickson, Sheriff of Glasgow.
James A. H. Murray, F.E.I.S., London.
Reinhold Pauli, D.C.L.
John Gordon, one of H.M. Inspectors of Schools.

1875.

Theodor Aufrecht, late Professor of Sanskrit, University of Edinburgh.
E. B. Cowell, Professor of Sanskrit, University of Cambridge.

Theodore Martin.

A. W. Potts, Head Master of Fettes College.

William Watson, Solicitor-General.

Robert Stoddart Wyld.

James Warburton Begbie, M.D., Edinburgh.

John Hughes Bennett, M.D., Emeritus Professor of Institutes of Medicine, University of Edinburgh.

James Matthews Duncan, M.D., Edinburgh.

Sir William Ferguson, Bart., President of the Royal College of Surgeons of England.

Alfred Henry M'Clintock, M.D., Dublin.

William Pirrie, M.D., Professor of Surgery, University of Aberdeen.

John Burdon Sanderson, M.D., Professor of Physiology, University College, London.

Thomas Shapter, M.D., Exeter.

1876.

The Right Hon. the Earl of Derby.

William D. Geddes, Professor of Greek, University of Aberdeen.

John Hullah, H.M. Musical Examiner of Training Colleges.

W. Stanley Jevons, Professor of Political Economy, King's College, London.

John Thomson Mowbray, W.S.

Sir Joseph Noel Paton, Limner to Her Majesty for Scotland.

Rev. Colin Valentine, Fellow of the Royal College of Surgeons, Edinburgh, and Missionary at Jeypore.

1877.

Charles U. Aitchison, Principal Secretary of the Foreign Department to the Government of India.

G. Rolin Jaequemyns, Advocate at the Court of Appeal at Ghent.

George Gore, F.R.S., Master of Science, School of King Edward, Birmingham.

John Bennett Lawes of Rothamsted, F.R.S.

Reinhold Rost, Principal Librarian, India Office.

John Westlake, Barrister-at-Law, Q.C., London.

Alexander Balloch Grosart, Minister of the Presbyterian Church, Blackburn.

1878.

Right Hon. Richard Monckton Milnes, Lord Houghton.

Alexander Smith Kinnear, Advocate.

Francis Turner Palgrave.

John Skelton, Advocate.

Samuel Smiles.

Graduation in Medicine and Surgery.

Three Medical Degrees are conferred by the University of Edinburgh, viz., Bachelor of Medicine (M.B.), Master in Surgery (C.M.), and Doctor of Medicine (M.D.) The Degree of Master in Surgery is not conferred on any person who does not also at the same time obtain the Degree of Bachelor of Medicine.

These Degrees are a passport to the General Council of the University, and to the Medical Register. They qualify for Practice throughout Her Majesty's dominions, and for admission to the Military, Naval, and other Public Medical Service in the United Kingdom.

All Candidates for these Degrees must give evidence of having obtained a satisfactory General Education.

STATUTES OF THE UNIVERSITY RELATIVE TO THE PRELIMINARY EXAMINATION IN GENERAL EDUCATION.

I. The preliminary branches of extra-professional education are English, Latin, Arithmetic, the Elements of Mathematics, and the Elements of Mechanics; and the proficiency of Students in these branches is ascertained by examination, prior to the commencement of their medical study.

II. No candidate is admitted to a professional examination who has not passed a satisfactory examination on at least two of the following subjects (in addition to the subjects mentioned above):—Greek, French, German, Higher Mathematics, Natural Philosophy, Logic, Moral Philosophy; and the examination on these latter subjects also takes place before the candidate has entered on his Medical Curriculum.

III. A Degree in Arts (not being an Honorary Degree) in any one of the Universities of England, Scotland, or Ireland, or in any Colonial or Foreign University, specially recognised for this purpose by the University Court, exempts from all preliminary examination; and an Examination in Arts by any corporate body, whose examination has been recognised as qualifying for

entrance on medical study by resolution of the General Medical Council of the United Kingdom, provided the said examination by the said corporate body shall be also approved by the University Court, shall exempt, *pro tanto*, from preliminary examination in Arts, on the subjects comprised in the said examination of the said corporate body. (See p. 178.)

STATUTES OF THE UNIVERSITY RELATIVE TO PROFESSIONAL EDUCATION AND EXAMINATION.

IV. No one is admitted to the DEGREE of BACHELOR of MEDICINE or MASTER in SURGERY who has not been engaged in Medical and Surgical study for four years—the Medical Session of each year or *Annus Medicus*, being constituted by at least two courses of not less than one hundred lectures each, or by one such course, and two courses of not less than fifty lectures each; with the exception of the Clinical Courses, in which lectures are to be given at least twice a week during the prescribed periods.

V. Every candidate for the Degrees of M.B. and C.M. must give sufficient evidence by certificates—*

1. That he has studied each of the following departments of Medical Science, viz.,

ANATOMY,	}
CHEMISTRY,	
MATERIA MEDICA,	
INSTITUTES OF MEDICINE OR PHYSIOLOGY,	
PRACTICE OF MEDICINE,	
SURGERY,	

MIDWIFERY, and the DISEASES peculiar to WOMEN and CHILDREN; two Courses of Midwifery, of Three Months each, being reckoned equivalent to a Six Months' Course, provided different departments of Obstetric Medicine be taught in each of the Courses.

GENERAL PATHOLOGY, or in Schools where there is no such Course, a Three Months' Course of Lectures on Morbid Anatomy, together with a Supplemental Course of Practice of Medicine or Clinical Medicine. }

During Courses including not less than One Hundred Lectures.

* No Course of Lectures will be allowed to qualify unless the Lecturer certifies that it has embraced at least 100 lectures, or 50 lectures in conformity with the requirements of this section. Three Months' courses on Materia Medica, Pathology, and Midwifery do not qualify.

PRACTICAL ANATOMY, .	{ A Course of the same duration as those of not less than One Hundred Lectures above described.*
PRACTICAL CHEMISTRY, .	Three Months.
PRACTICAL MIDWIFERY,	{ Three Months at a Midwifery Hospital, or a Certificate of Attendance on six Cases from a registered Medical Practitioner.
CLINICAL MEDICINE, .	{ Courses of the same duration, as those of not less than One Hundred Lectures above prescribed, or Two Courses of Three Months' Lectures being given at least twice a week.
CLINICAL SURGERY,† .	
MEDICAL JURISPRUDENCE, . . .	{ During Courses including not less than Fifty Lectures.
BOTANY, . . .	
NATURAL HISTORY, including ZOOLOGY,	

2. That he has attended for at least two years the Medical and Surgical Practice of a General Hospital which accommodates not fewer than eighty patients, and possesses a distinct staff of Physicians and Surgeons.

3. That he has been engaged, for at least three months, by apprenticeship or otherwise, in compounding and dispensing drugs at the Laboratory of an Hospital, Dispensary, Member of a Surgical College or Faculty, Licentiate of the London or Dublin Society of Apothecaries, or a Member of the Pharmaceutical Society of Great Britain.

4. That he has attended, for at least six months, by apprenticeship or otherwise, the out-practice of an Hospital, or the practice of a Dispensary, Physician, Surgeon, or Member of the London or Dublin Society of Apothecaries.‡

VI. The studies of candidates for the Degrees of Bachelor of Medicine and Master in Surgery are subject to the following Regulations:—

* Certificates of attendance on Practical Anatomy must express not only the number of months engaged in dissection, but the names of the parts dissected, and the degree of care with which the dissections have been made. Students are recommended not to appear for an examination in Anatomy with a view to a Degree, until they have dissected the human body at least once.

† The Medical Faculty recommend that Medical Students should not attend Clinical Surgery during their first six months' attendance on Clinical Medicine.

‡ Practical Pharmacy, Dispensary, Hospital Practice, and Vaccination are not reckoned as *Classes*.—See Regulation as to Vaccination at p. 174.

1. One of the four years of Medical and Surgical study, required by Section IV., must be in the University of Edinburgh.

2. Another of such four years of Medical and Surgical study must be either in the University of Edinburgh, or in some other University entitled to give the Degree of Doctor of Medicine.

3. Attendance during at least six winter months on the Medical or Surgical Practice of a General Hospital, which accommodates at least eighty patients, and, during the same period, on a course of Practical Anatomy, may be reckoned as one of such four years, and to that extent shall be held equivalent to one year's attendance on Courses of Lectures as above prescribed.

4. One year's attendance on the Lectures of Teachers of Medicine in the Hospital Schools of London, or in the School of the College of Surgeons in Dublin, or of such Teachers of Medicine in Edinburgh, or elsewhere, as shall from time to time be recognised by the University Court, may be reckoned as one of such four years, and to that extent shall be held as attendance on Courses of Lectures as above prescribed.

5. Candidates may, to the extent of Four of the Departments of Medical Study required by Section V., Sub-section 1, attend in such year or years of their Medical and Surgical studies, as may be most convenient to them, the Lectures of the Teachers of Medicine specified in the foregoing Sub-section 4.

[Thus, by attendance on these Teachers, Candidates may obtain two *Anni Medici*, one of which must be constituted by attendance at the same time on Hospital Practice and Practical Anatomy, and the other by attendance on at least Two (and not more than Three) Courses of One Hundred Lectures, or One such Course, and Two Courses of Fifty Lectures. In Provincial Schools, where there are no Lecturers qualified by the University Court, a Candidate can have only One *Annus Medicus*, and this is constituted by attendance on a Qualified Hospital along with a course of Practical Anatomy.]

6. All candidates not Students of the University, availing themselves of the permission to attend the Lectures of Extra-Academical Teachers in Edinburgh, must, at the commencement of each year of such attendance, enrol their names in a book to be kept by the University for that purpose, paying a Fee of the same amount as the Matriculation Fee paid by Students of the University, and having in respect of such payment, a right to the use of the Library of the University.

7. The Fee for attendance on the Lectures of an Extra-Academical Teacher in Edinburgh, with a view to Graduation, must be of the same amount as that exigible by Medical Professors in the University.

[The Fee must be paid at the commencement of the Course.]

8. No Teacher is recognised who is at the same time a Teacher of more than one of the prescribed branches of study, except in those cases where Professors in the University are at liberty to teach two branches.

9. It is not necessary for any Teacher, attendance on whose Lectures is now recognised for the purposes of Graduation in the University, to obtain a new recognition from the University Court ; and attendance on the Lectures of every such Teacher will continue to be recognised as heretofore.

10. It is in the power of the University Court, if they shall see cause, at any time to withdraw or suspend the recognition of any Teacher or Teachers.

VII. Every Candidate must deliver, before the 31st day of March of the year in which he proposes to Graduate, to the Dean of the Faculty of Medicine—

1. A declaration, in his own handwriting, that he has completed his twenty-first year, [or that he will have done so on or before the day of Graduation,] and that he will not be, on the day of Graduation, under articles of apprenticeship to any Surgeon or other master.

2. A statement of his studies, as well in Literature and Philosophy as in Medicine, accompanied with proper certificates.

VIII. Each candidate is examined, both in writing and *viva voce*—*First*, on Chemistry, Botany, and Natural History ; *Secondly*, on Anatomy, Institutes of Medicine, Materia Medica, [including Practical Pharmacy], and Pathology ; *Thirdly*, on Surgery, Practice of Medicine, Midwifery, and Medical Jurisprudence ; *Fourthly*, Clinically on Medicine and on Surgery in an Hospital. The examinations on Anatomy, Chemistry, Institutes of Medicine, Botany, Natural History, Materia Medica, and Pathology are conducted, as far as possible, by demonstrations of objects placed before the candidates.

IX. Students who profess themselves ready to submit to an examination on the first division of these subjects, at the end of their second year, may be admitted to examination at that time. Provided always that Students who commence their medical studies in the Summer Session, and who profess themselves ready to submit to an examination on the first division of these subjects at the beginning of their second Winter Session may be admitted to examination at that time on condition that they

produce certificates of attendance on at least two classes during each of two Summer Sessions and one Winter Session ; and on the further condition that they shall not be admitted to a degree in Medicine unless their course of study, subsequent to the completion of the Summer Session in which they commence their medical studies, shall not be less than the minimum course of four years prescribed in Section IV. hereof.

X. Students who have passed their examination on the first division of these subjects, may be admitted to examination on the second division at the end of their third year.

XI. The examination on the third and fourth divisions cannot take place until the candidate has completed his fourth *Annus Medicus*.

XII. Candidates may, if they choose, be admitted to examination on the first two of these divisions at the end of their third year, or to the four examinations at the end of their fourth year.

[Thus Candidates for the First Professional Examination must have given attendance on qualifying classes for at least two *Anni Medici*, or for two Summer Sessions and one Winter Session ; for the Second Professional Examination three complete *Anni Medici* ; and for the Final Professional Examination four complete *Anni Medici*.]

XIII. If any candidate at these examinations be found unqualified, he cannot be again admitted to examination unless he has studied, during another year, two of the prescribed subjects, either in the University, or in some other School of Medicine.

XIV. After the candidate has satisfied the Medical Examiners, the Dean will lay the proceedings before the Senatus Academicus, by whose authority the candidate will be admitted on the first day of August, or, if that day be Sunday, then on the following day, to the Degree of Bachelor of Medicine, or to the Degrees of Bachelor of Medicine and of Master in Surgery.

XV. The Senatus Academicus, on the day here appointed, will assemble at ten o'clock A.M., for the purpose of conferring Degrees ; and no candidate, unless a sufficient reason be assigned,

shall absent himself, on pain of being refused his Degree for that year.

XVI. Candidates for Graduation are required to produce evidence of their having conformed to the Regulations which were in force at the time they commenced their Medical Studies.

XVII. The Degree of DOCTOR OF MEDICINE may be conferred on any candidate who has obtained the Degree of Bachelor of Medicine, and is of the age of twenty-four years, and produced a certificate of having been engaged, subsequently to his having received the Degree of Bachelor of Medicine, for at least two years in attendance on an Hospital, or in the Military or Naval Medical Services, or in Medical and Surgical Practice:

Provided always that the Degree of Doctor of Medicine shall not be conferred on any person, unless he be a Graduate in Arts of one of the Universities of England, Scotland, or Ireland, or of such other Universities as are above specified, or unless he shall, before or at the time of his obtaining the Degree of Bachelor of Medicine, or thereafter, have passed a satisfactory examination on *three* of the subjects mentioned in Section II. of the Statutes relative to Preliminary Examination. Two of these must be Greek, and Logic or Moral Philosophy, and the third is to be one of the following subjects at the option of the Candidate—namely French, German, Higher Mathematics, and Natural Philosophy.

And provided also that the candidate for the Degree of Doctor of Medicine shall submit to the Medical Faculty a Thesis, certified by him to have been composed by himself, and which shall be approved by the Faculty, on any branch of knowledge comprised in the professional examinations for the Degree of Bachelor of Medicine, which he may have made a subject of study after having received that Degree. The Candidate must lodge his Thesis with the Dean on or before 30th April of the year in which he proposes to graduate. No Thesis will be approved by the Medical Faculty which does not contain either the results of original observations in practical Medicine, Surgery, Midwifery, or in some of the sciences embraced in the curriculum for the Bachelor's Degree; or else a full digest and critical

exposition of the opinions and researches of others on the subject selected by the Candidate, accompanied by precise references to the publications quoted, so that due verification may be facilitated.

Candidates, settled for a period of years in foreign parts, who have complied with all the regulations for the Degree of M.D., (under the new Statutes), but who cannot appear personally to receive the Degree, may, on satisfying the Senatus to that effect, by production of sufficient official testimonials, have the Degree conferred on them in absence.

XVIII. The Medical Examiners for all candidates for Graduation in Medicine are the Professors in the Faculty of Medicine, along with the thirteen non-professorial Examiners appointed annually by the University Court.

XIX. The provisions of these Statutes came into operation on the 4th of February 1861.

XX. Persons who began their medical studies before the 4th of February 1861, are entitled to graduate under the system in force before or after that date, according as they may comply with the regulations in force in the University before or after that date.

REGULATION AS TO VACCINATION.

In conformity with the desire expressed by the Local Government Board, it has been resolved that a Candidate for a Degree in Medicine must produce, at his final examination, a certificate from a recognised Vaccine Department in an Hospital, Dispensary, or other public Institution, to the effect that he has himself performed the operation successfully under the teacher's inspection; that he is familiar with the different stages of the vaccine vesicle, and with the method of preserving lymph, and is thoroughly informed in every necessary part of the subject.

Recognised Vaccine Departments in Edinburgh are—in the Royal Public Dispensary, 21 West Richmond Street—*Vaccinator*, Dr Husband; in the New Town Dispensary, 17 Thistle Street—*Vaccinator*, Dr Affleck.

REGULATIONS AS TO THE FIRST PROFESSIONAL EXAMINATION.

The Medical Faculty have resolved that the written and oral examinations on Chemistry, Botany, and Natural History, in October 1878 and April 1879 shall be restricted in the following manner :—

1. *Chemistry*.—Classification of Elements. General Laws of Chemical Combination and Action, as illustrated in the simpler compounds of the more commonly occurring elements. Symbolic Notation.

Preparation and Properties of the Non-Metallic Elements and their chief Compounds. Manufacture of Sulphuric, Nitric, and Hydrochloric Acids and Ammonia.

Classification and General Properties of Acids, Bases, and Salts.

Manufacture and Properties of Soda, Potash, Nitre, Gunpowder, Lime, Mortars, Cements, Earthenware, Porcelain, and Glass.

Metallurgical operations in general. Preparation of Iron, Zinc, Copper, Lead, Tin, Mercury, and Silver, from their Ores. Alloys. Preparation, Properties, and Composition of Cast-Iron, Wrought-Iron, and Steel. Principal salts of Potassium, Sodium, Ammonium, Barium, Strontium, Calcium, Magnesium, Zinc, Aluminium, Chromium, Manganese, Iron, Cobalt, Nickel, Copper, Lead, Silver, Gold, Mercury, Platinum, Tin, Bismuth, Antimony, Arsenic.

Classification of Organic Compounds. Alcohol, Ethers, Acetic Acid, Tartaric Acid, Citric Acid, Wood, Sugars, Starch, Coal-Gas, Coal-Tar, Oils and Fats, Saponification, Urea.

Simple Qualitative Analysis. *The Examination in Analysis is conducted practically.]*

2. *Botany*.—The Structure and Functions of Plants, Vegetable Organography and Physiology, the Principles of Classification, Classes, Sub-Classes, and Sections of the Natural System. (*See* Balfour's "Class-Book," or his "Manual of Botany.") Botanical Characters to be demonstrated on conspicuous specimens of the following Natural Orders :—Ranunculaceæ, Papaveraceæ, Cruciferae, Caryophyllaceæ, Malvaceæ, Leguminosæ, Rosaceæ, Onagraceæ, Umbelliferae, Dipsacaceæ, Compositæ, Campanulaceæ (including Lobeliaceæ), Boraginaceæ, Labiatae, Scrophulariaceæ, Solanaceæ, Primulaceæ, Euphorbiaceæ, Salicaceæ, Corylaceæ, Coniferae, Cycadaceæ, Orchidaceæ, Amaryllidaceæ, Liliaceæ, Palmæ, Cyperaceæ, Gramineæ, Filices, Musci. The student will be examined practically on the Microscopical Structure of Plants, and he will be required to describe the organs of fresh plants put into his hands.

3. *Zoology and Comparative Anatomy*.—The general characters of the Animal Kingdom, and the general Structure and Organization of Animals. Principles of Zoological Classification. General plan of

structure, and physiology of the Types: Protozoa, Porifera, Cœlenterata, Echinodermata, Vermes, Articulata, Mollusca, and Vertebrata.

The special distinctive characters of the following groups, with a knowledge of familiar examples of each, and the conditions and circumstances under which they occur; candidates will be required to refer any specimens shewn to them by the Examiner for this purpose to their respective groups: Rhizopoda, Infusoria; Porifera silicea, calcarea; Zoantharia, Alcyonaria, Hydrozoa; Echinidea, Asteridea, Crinoidea; Platyelmia, Nematelmia, Annelida; Crustacea, Arachnida, Myriapoda, Insecta; Lamellibranchiata, Gastropoda, Cephalopoda; Pisces, Amphibia, Reptilia, Aves, Mammalia.

ARRANGEMENTS FOR THE PRELIMINARY EXAMINATION IN GENERAL EDUCATION.

The Preliminary Examinations in General Education are held in the Upper Library Hall, and Students Matriculated for the academic year are admitted on presenting their Matriculation Tickets at the door. Students Matriculated for the Summer only and Non-Matriculated Students pay a Fee of Ten Shillings each, and are admitted on showing their Receipts. Those who pay the Fee in March will be admitted to the Examination in October without farther payment. Payment in October does not exempt from payment in March. The academic year is reckoned from 1st November to 1st November.

Candidates are required to enter their names *in full* and at the same time to mention the subject or subjects in which they offer themselves for Examination. They are also required to state whether they have appeared for any Preliminary or Professional Examinations at this University.

Any Candidate who cannot appear personally at the time fixed to enter his name and pay the fee, must complete the schedule required for the purpose, and transmit it with an order for the Fee to the *Secretary of the Senatus*.

I. In conformity with Section I. of the Statutes (see p. 167), examinations on the Preliminary Branches of Extra-Professional Education will take place on Tuesday, Wednesday, Thursday, and Friday the 8th, 9th, 10th, and 11th October 1878; and on Tuesday, Wednesday, Thursday, and Friday the 11th, 12th, 13th, and 14th March 1879.

Examination on Tuesdays.—Arithmetic, 9 to 11 A.M.; Mathematics (Euclid, Algebra), 11.30 A.M. to 1.30 P.M.; and Mechanics, 2 to 4 P.M.

Examination on Wednesdays.—English, 9 to 11 A.M.; Natural Philosophy, 11.30 A.M. to 1.30 P.M.; Higher Mathematics, 2 to 4 P.M.

Examination on Thursdays.—Latin, 9 to 11 A.M.; Logic, 11.30 A.M. to 1.30 P.M.; Moral Philosophy, 2 to 4 P.M.

Examination on Fridays.—Greek, 9 to 11 A.M.; French, 11.30 A.M. to 1.30 P.M.; German, 2 to 4 P.M.

1. *English.*—The Examination will include:—(1.) Writing a passage of English from dictation; (2.) English Composition, with the correction of sentences of bad English; (3.) Questions in English Grammar, with analysis of sentences, and the derivation and definition of some common English words; (4.) General Questions in History and Geography.

2. *Latin.*—Livy, Book XXIII. An easy passage from a Latin prose author, and a single passage of English (translated from a Latin author) to be re-translated into Latin—the more difficult Latin words being given.

3. *Arithmetic.*—The Common Rules, including Vulgar and Decimal Fractions.

4. *Elements of Mathematics.*—Euclid, Books I., II., and III., and the Elementary Rules of Algebra, including Simple Equations. A knowledge of Euclid alone will not be sufficient.

5. *Elements of Dynamics (Mechanics).*—Elementary Kinematics, Statics, Kinetics, and Hydrostatics. Text Book: Blaikie's *Elements of Dynamics*.

II. In conformity with Section II. of the said Statutes. (see p. 3), which enacts that no candidate shall be admitted to a professional examination who has not passed a satisfactory examination on at least *two* optional subjects (in addition to the subjects mentioned above) examinations will take place on the following subjects:—

1. *Greek.*—Xenophon, *Memorabilia*, Book I.

2. *French.*—Molière, *Les Femmes Savantes*.

3. *German.*—Schiller, *Maria Stuart*.

4. *Higher Mathematics.*—Euclid, Books I.-VI.—Algebra, Elementary Trigonometry, and Conic Sections.

5. *Natural Philosophy.*—Text-Book recommended—Balfour Stewart's *Elementary Physics*.

6. *Logic.*—Either Jevons's *Elementary Lessons in Logic*, or Professor Fraser's *Selections from Berkeley*, pp. 125-222

7. *Moral Philosophy.*—Professor Calderwood's *Handbook*, pp. 1-43, 77-97, 123-152, and 165-202.

The working of the questions in Arithmetic, Mathematics, and Dynamics (Mechanics), as well as the answers, must be exhibited.

As regards Latin, Greek, French, and German, mere translation is not sufficient. There must be translation of an English passage into each of the languages taken up by the Candidates.

[If a Student has not passed at the commencement of his Medical Studies all the subjects of General Education required in Section II. of the Statutes, he may pass them at a subsequent period before appearing for his First Professional Examination.]

The Preliminary Examinations in General Education of the following Bodies are recognised *pro tanto*; that is to say, they exempt from examination on the subjects comprised in them, in so far as the examinations are of the same extent as those required by this University. Any subjects required by the Statutes, and not included in these examinations, or not carried out to the requisite extent, must be passed at the University.

Mathematics must in all cases extend to three Books of Euclid, and must include Algebra.

As regards Optional Subjects, each of them must be certified; and in so far as they are of the nature and extent required by the University, they will be allowed to qualify.

No Examination of any other Board will be received on any subjects in which Candidates have been remitted at this University.

In all cases candidates must produce Certificates of having passed such Examinations, with an official notice of the subjects in which they have passed, and of the extent of the Examination on each subject.

I.—UNIVERSITIES OF THE UNITED KINGDOM.

OXFORD.—Examination for a Degree in Arts; Responsions; Moderations; Local Examinations (Senior), Certificate to include Latin and Mathematics.

CAMBRIDGE.—Examination for a Degree in Arts; Previous Examination; Local Examinations (Senior), Certificate to include Latin and Mathematics.

DURHAM.—Examination for a Degree in Arts; Registration Examination for Medical Students; Local Examinations (Senior), Certificate to include Latin and Mathematics.

LONDON.—Examination for a Degree in Arts or Science; Matriculation Examination.

GLASGOW, ABERDEEN, AND ST ANDREWS.—Examination for a Degree in Arts; Preliminary Examination for Graduation in Medicine and Surgery.

EDINBURGH and GLASGOW.—Examination for a Degree in Arts; Examination of Candidates for Honour Certificates under the Local Examinations of the University.

DUBLIN.—Examination for a Degree in Arts; Public Entrance Examination.

QUEEN'S (IRELAND).—Examination for a Degree in Arts; Entrance Examination; Examination for the Diploma of Licentiate in Arts; Previous Examination for B.A. Degree.

II.—OTHER BODIES NAMED IN SCHEDULE (A) TO THE
MEDICAL ACT.

ROYAL COLLEGE OF SURGEONS OF ENGLAND.—Examination conducted under the Superintendence of the College by the Board of Examiners of the Royal College of Preceptors.

THE SOCIETY OF APOTHECARIES OF LONDON.—Examination in Arts.

ROYAL COLLEGE OF PHYSICIANS (EDINBURGH), and ROYAL COLLEGE OF SURGEONS (EDINBURGH).—Preliminary Examination in General Education, conducted by a Board appointed by these Colleges combined.

FACULTY OF PHYSICIANS AND SURGEONS OF GLASGOW.—Preliminary Examination in General Education.

ROYAL COLLEGE OF SURGEONS IN IRELAND.—Preliminary Examination, Certificate to include Mathematics.

APOTHECARIES' HALL OF IRELAND.—Preliminary Examination in General Education.

THE EXAMINATIONS FOR COMMISSIONS AND APPOINTMENTS IN THE NAVAL, MILITARY, AND CIVIL SERVICES IN THE UNITED KINGDOM.—Certificate to include all the Subjects required by the General Medical Council.

ROYAL COLLEGE OF PRECEPTORS.—Examination for a First-class Certificate.

III.—INDIAN, COLONIAL, AND FOREIGN UNIVERSITIES AND
COLLEGES.

UNIVERSITY OF (1) CALCUTTA, (2) MADRAS, and (3) BOMBAY.—Entrance Examination, Certificate to include Latin.

M'GILL COLLEGE, MONTREAL.—UNIVERSITIES OF (1) TORONTO, (2) TRINITY COLLEGE, TORONTO, (3) QUEEN'S COLLEGE, KINGSTON, (4) VICTORIA COLLEGE, UPPER CANADA, (5) FREDERICTON, NEW BRUNSWICK.—Matriculation Examination.

UNIVERSITY OF KING'S COLLEGE, NOVA SCOTIA.—Matriculation Examination; Responsions.

UNIVERSITY OF MELBOURNE.—Matriculation Examination, Certificate to include all the Subjects required by the General Medical Council.

UNIVERSITY OF SYDNEY.—Matriculation Examination.

UNIVERSITY OF THE CAPE OF GOOD HOPE.—Matriculation Examination.

- UNIVERSITY OF ADELAIDE.—Matriculation Examination,
 SOUTH AUSTRALIA, SOUTH AUSTRALIAN INSTITUTE, ADELAIDE.—
 Preliminary General Examination, First-Class Certificate.
 CODRINGTON COLLEGE (BARBADOS).—(1) English Certificate for
 Students of two years' standing, specifying the Subjects of
 Examination ; (2) Latin Certificate, or "Testamur."
 TASMANIAN COUNCIL OF EDUCATION.—Examination for the Degree of
 Associate of Arts, Certificate to include Latin and Mathematics.
 OTAGO UNIVERSITY.—Preliminary Examination.
 CHRIST'S COLLEGE, CANTERBURY, NEW ZEALAND.—Voluntary Ex-
 aminations, Certificate to include all the Subjects required by the
 General Medical Council.
 RUSSIA.— Examination for a Certificate of Maturity.

REGISTRATION OF MEDICAL STUDENTS.

According to the Regulations of the General Medical Council of the United Kingdom, every Student must, at the commencement of his medical studies, be registered on the Register of Students kept by the General Medical Council. No Student can be registered who has not passed in English, Latin, Arithmetic, Euclid, and Algebra, along with one optional subject, as French, or German, or Greek, or Mechanics, or Natural Philosophy. The commencement of medical study is reckoned from the date of registration, and Students are recommended to register with the Branch Registrar for Scotland as soon as they have passed in the required subjects. Forms for Registration may be had on application to the Clerk of the University.

A Student who has not been able to register, and who commences his Medical Studies in Summer, may matriculate, and attend the classes of Botany and Natural History. He must, however, pass a sufficient preliminary examination in October, so as to entitle him to be registered at the commencement of the Winter Session.

The Faculty particularly recommend that all Medical Students should commence their curriculum in Summer.

MATRICULATION OF STUDENTS.

All Students must matriculate before they can be enrolled in any of the Classes in the University, or in any of the Extra-Academical Classes in Edinburgh which they may wish to qualify for Graduation. Matriculation consists in paying during each year of study an entrance fee of £1 to the University, and in inscribing the name in the Students' Album. The matriculation fee for a Summer Session only is 10s.

Every Candidate for a Degree in Medicine must matriculate at the University for the year in which he appears for Professional Examination or Graduation.

CERTIFICATES OF ATTENDANCE AT THE MEDICAL CLASSES.

The Senatus Academicus have resolved that the Certificates of Attendance to be granted to students at the Medical Classes shall be regulated in the following manner :—

Each Professor shall ascertain the presence of his pupils at least twenty-six times in a course of six months' duration, and thirteen times in a course of three months' duration.

Those who have been absent twelve or more times in a six months' course, or six or more times in a three months' course, shall not be entitled to any Certificate.

The following is the form of Certificate which must be adopted in all cases :—

“ I certify that Mr _____ attended my Course of Lectures
on _____ during the Session _____ ; that attendance was ascer-
tained _____ times, and that Mr _____ was present
on _____ of these occasions.”

Exceptions shall be admitted in the case of those who may be absent from sickness or other unavoidable causes, the particulars of which must be stated to the Professor in writing, accompanied with certificates. All excuses for non-attendance must be given in immediately upon the student returning to his class. But if any student shall have been absent for six weeks or upwards, in a Course of six months, or for three weeks in a Course of three months (whatever the cause of absence may be), his case must be transmitted to the Dean of Faculty for the decision of the Faculty.

Whenever the student's cause for absence shall be admitted by the Professor of the Faculty, the Certificate shall bear that he “ attended,” and shall state the amount of the irregularity and the nature of the excuse.

Candidates for Medical Degrees, in lodging the statement of their Courses of Study with the Dean of Faculty, will observe, that for all Courses of Lectures in the University, the Faculty will receive Certificates only, as evidence of their attendance ; and that in the schedules laid by the Dean before the Examiners, the terms of these Certificates will be mentioned.

The Senatus require that students shall take their tickets for each Course of Lectures not later than fifteen days after the commencement of the Course.

REGULATIONS AS TO CLASS EXAMINATIONS.

With a view to promote the Educational interests of the students during the time they are occupied with the respective subjects in the Classes, the Senatus recommend :—

1. That there should be at least two Special Class-Examinations in

the Medical Classes during each Session, conducted by means of questions and written answers, without aid from books or notes.*

2. That in the event of a student gaining 75 per cent. or more of the available marks in any department, he shall obtain a Certificate in the First Class of Honours.

3. That in the event of a student gaining 50 per cent. or more, but less than 75 per cent., of the available marks in any department, he shall receive a Certificate in the Second Class of Honours.

University Bronze Medals are also given for Competitive Class Examinations.

HONOURS AT PROFESSIONAL EXAMINATIONS.

1st. Candidates at the First Professional Examination who shall obtain not less than 4B and 2SB+ marks, shall pass "with distinction."

2d. Candidates at the Second Professional Examination, who shall obtain not less than 5B and 3SB+ marks, shall pass "with distinction."

3d. Candidates at the Final Examination, who shall obtain not less than 7B and 3SB+ marks, shall pass "with distinction."

FIRST CLASS HONOURS shall be conferred at the time of graduation on those Candidates who, during their Professional Examinations, have obtained not less than 20B marks, 2SB+ to be regarded at equivalent to 1B. For SECOND CLASS HONOURS not less than 16B marks must be obtained, 2SB+ to be regarded as equivalent to 1B. The mark Vix affixed to any subject of examination debars a Candidate from taking honours.

DATES OF EXAMINATIONS.

The dates of the Examinations for 1878-79 have been fixed as follows; and candidates for each of them are required to assemble in the Upper Library Hall a quarter of an hour before the time fixed for examination:—

Preliminary Examination in	} 8th, 9th, 10th and 11th Oct. 1878; 11th, 12th, 13th and 14th March 1879	} hours at pages 12, 13.
General Education,		

Names to be given in and Fees paid on or before 1st October, and on or before 3d March.

First Professional Examination,	} 17th and 18th Oct. 1878 1st and 2d April 1879.	} at 11 o'clock each day.
Names to be given in and Fees paid on or before 11th October, and on or before 19th March.		

Second Professional Examination,	} 3d and 4th July 1878. 9th and 10th April 1879.	} at 12 o'clock each day.
Names to be given in and Fees paid on or before 25th June, and on or before 31st March.		

* During the Winter Session the usual days for the Examination are the 2d or 3d Saturday of January, and the 2d or 3d Saturday of March.

Final Professional Examination, . . . } 4th and 5th June 1878. } at 12 o'clock
 } each day.

Names to be given in and Fees paid on or before 24th May.

Graduation, 1st August. IO A.M.

Candidates to assemble at 9 a.m.

Names to be given in and Fees paid on or before 15th July.

Theses for M.D. to be given in 30th April.

Note.—Clinical Examinations commence on Monday, 5th May 1879. Names of Candidates to be given in on or before 30th April.

LIST OF EXTRA-ACADEMICAL LECTURERS WHO HAVE
 BEEN RECOGNISED BY THE UNIVERSITY COURT,
 SINCE 1861.*

DUBLIN.

Edward Ledwich, Surgeon,	Anatomy,	Oct. 12, 1863.
William Moore, M.D.,	Practice of Physic,	Nov. 12, 1863.

EDINBURGH.

George W. Balfour, M.D.,	Practice of Physic,	Oct. 3, 1864.
Joseph Bell, M.D.,	Surgery,	Oct. 12, 1863.
John Chiene, M.D.	Surgery,	April 14, 1870.
John Duncan, M.D.,	Surgery,	Oct. 7, 1872.
Daniel R. Haldane, M.D.,	Practice of Physic,	Oct. 31, 1862.
Peter D. Handyside, M.D.,	Anatomy,	Oct. 12, 1863.
Alexander Keiller, M.D.,	Midwifery,	July 13, 1870.
J. Falconer King,	Chemistry,	Dec. 29, 1874.
Stevenson Macadam, Ph.D.,	Chemistry,	Aug. 1855.
Alexander G. Miller, M.D.,	Surgery,	Feb. 6, 1871.
Claud Muirhead, M.D.,	Practice of Physic,	Oct. 7, 1872.
Andrew Smart, M.D.,	Institutes of Med.,	March 1, 1877.
Andrew Wilson, Ph.D.,	Natural History,	Oct. 11, 1875.
John Wyllie, M.D.,	Pathology,	Oct. 3, 1870.
Angus M'Donald, M.D.,	Midwifery,	Dec. 3, 1877.
F. W. Moinet, M.D.,	Materia Medica,	Dec. 3, 1877.

GLASGOW.

A. M. Buchanan, M.D.,	Anatomy,	Oct. 12, 1874.
Joseph Coates, M.D.,	Pathology,	June 14, 1875.
W. Dittmar,	Chemistry.	May 30, 1876.
James Dunlop, M.D.,	Surgery,	Oct. 12, 1875.
W. J. Fleming, M.B.,	Physiology,	Oct. 9, 1876.
David Foulis, M.D.,	Pathology,	Oct. 9, 1876.
William M'Ewen, M.D.,	Med. Jurisprudence.	Dec. 19, 1876.
James Morton, M.D.,	Materia Medica,	July 5, 1867.
Eben. Watson, M.D.,	Institutes of Med.,	Oct. 31, 1862.
Hector C. Cameron, M.B.,	Surgery,	Dec. 3, 1877.
A. Wood Smith, M.D.,	Practice of Physic,	Feb. 22, 1878.

LEEDS.		
T. E. Thorpe, Ph.D.,	Chemistry,	Feb. 8, 1872.
LIVERPOOL.		
W. Mitchell Banks, M.D.,	Anatomy,	Oct. 20, 1871.
J. Campbell Brown, Sc.D.,	Chemistry,	Oct. 20, 1871.
Richard Caton, M.D.,	Institutes of Med.,	Oct. 15, 1872.
LONDON.		
Thomas Henry Huxley, LL.D.,	Natural History,	Oct. 13, 1869.
MANCHESTER.		
Arthur Gamgee, M.D.,	Institutes of Med.,	Oct. 13, 1869.
H. E. Roscoe,	Chemistry,	May 30, 1876.
Morrison Watson, M.D.,	Anatomy,	Nov. 9, 1874.
OTAGO.		
James Gow Black, M.A., D.Sc.,	Chemistry,	Oct. 13, 1873.
John Halliday Scott, M.D.,	Anatomy,	Oct. 26, 1877.
W. F. Hutton,	Natural History,	Oct. 26, 1877.
SHEFFIELD.		
Samuel Drew, M.D.,	Public Health,	Oct. 31, 1876.

SPONSIO ACADEMICA TO BE SIGNED BY GRADUATES IN MEDICINE.

Ego Doctoratus in Arte Medica titulo jam donandus, sancte coram Deo cordium scrutatore, spondeo, me in omni grati animi officio erga Academiam Edinburgenam ad extremum vitæ halitum perseveraturum.

Tum porro Artem Medicam caute, caste, probeque exercitaturum, et quoad potero, omnia ad ægrotorum corporum salutem conducentia cum fide procuraturum. Quæ, denique, inter medendum visa vel audita sileri conveniat, non sine gravi causa vulgaturum.

Ita præsens spondenti adsit Numen.

RIGHTS OF THE MEDICAL GRADUATES OF SCOTLAND ACCORDING TO THE MEDICAL ACT.

Before the passing of the Medical Act of 1858, the Degree of Doctor of Medicine granted by the Universities of Scotland (as the possessor underwent a complete education and examination in all departments of Physic and Surgery), qualified the Graduate to practise every branch of the Medical profession throughout Scotland. One principal purpose of the Medical Act was to

extend local rights of practice over the whole of Her Majesty's dominions. But according to the hitherto accepted reading of a dubious clause in the Act, no one can practise both Medicine and Surgery without possessing two distinct Diplomas—one for Medicine and another for Surgery. The Universities were thus compelled, in justice to their Graduates, to give them the additional title of Master in Surgery, not as implying any additional study or examination, but as declaring more distinctly their qualifications, and to permit Registration as regularly qualified practitioners in the whole field of their professional education. The Secretary for War some time ago issued an Order that candidates for admission into the Medical service of the Army should obtain their qualifications in Physic and Surgery from two different sources; the effect of which would have been to prevent any one University from qualifying for this purpose. The Scottish Universities' Commissioners, recognising the serious evils of such a system, followed up a remonstrance which had been offered on the part of the University of Edinburgh, and obtained the rescinding of all restrictions in the source of qualification. Consequently, any single University in Scotland can now qualify candidates for the Military service as well as for any other public Medical service in the country.

WM. TURNER, M.B.,
Dean of the Faculty of Medicine.
and Professor of Medicine and Anatomy

GRADUATES IN MEDICINE.

LIST OF GRADUATES IN MEDICINE WHO HAVE OBTAINED GOLD
 MEDALS FOR THEIR THESES.

1848.

Aitken, William, Scotland
 Haldane, Daniel Rutherford, Scot.
 Macrae, Charles Mackenzie, Scot.
 Struthers, James, Scotland

1849.

Balfour, James Brewster, Scotland
 Sanders, William Rutherford, Scot.
 Vanderbyl, Philip John, Cape of
 Good Hope

1850.

Christison, Alexander, Scotland
 Marcet, William, Geneva
 Nelson, Henry, India

1851.

Cobbold, Spencer, England
 Millington, William, England
 Murchison, Charles, Jamaica
 Sanderson, John Scott, England

1852.

Drummond, James, Scotland
 Martyn, Samuel, England
 Taggart, John, Ireland

1853.

Bryce, William, Ireland
 Dalzell, Allen, Scotland
 Priestley, Wm. Overend, England
 Turle, John, England

1854.

Johnston, Joseph, Scotland
 Liddon, Edward, England
 Willis, Matthew, England

1855.

Blackie, George Stodart, Scotland
 Bryden, James Lumsdaine, Scot.
 Hodgson, Decimus Filius de, Eng.

1856.

Carter, Thomas Albert, England
 Cleland, John, Scotland

1857.

Sutherland, George Sackville, India
 Turle, James, England
 Young, Peter, Scotland

1858.

Maingay, Alex. Carroll, England
 Thomson, Murray, Scotland
 Wilson, Henry Season, Brazil

1859.

Brown, John, Scotland
 Rorie, James, Scotland

1860.

Annandale, Thomas, England
 Dickson, Alexander, Scotland
 M'Intosh, Wm. Carmichael, Scot.

1861.

Anderson, John, Scotland
 Clouston, Thomas Smith, Orkney
 Pettigrew, James, Scotland

1862.

Black, James Watt, Scotland
 Fraser, Thomas Richard, India
 Gamgee, Arthur, Florence
 Traquair, Ramsay Heatley, Scot.

1863.

Braidwood, Peter Murray, India
 Duckworth, Dyce, England
 Rutherford, William, Scotland
 Spence, Alexander Ingram, Scot.

1864.

Banks, William Mitchell, Scotland
 Parsons, Charles, England
 Thomson, Robert Bremner, Scot.
 Watson, Alfred Marchmont, Jamaica

1865.

Clerk, John Barclay, Scotland
 Lightbody, William Henry, Wales
 Wyllie, John, Scotland

1866.

Brunton, Thomas Lauder, Scotland
 Gould, Franklin, England
 Hair, Philip, Scotland

1867.

Nicholson, Henry Alleyne, England
 Watson, Morrison, Scotland

1869.

Haddon, John, Scotland
 Strachan, John Miller, England

1870.

Caton, Richard, England
 Ferrier, David, Scotland

1871.

Cumming, James, Scotland
 Pritchard, Urban, England

1872.

Dougall, Joseph.
 Rabagliati, Andrea Carlo Francisco, M.A., Edinburgh.

1873.

Bennett, Alexander, Scotland
 Bishop, John, England
 Campbell, Wm. Macfie, Scotland
 Page, David, Scotland

1874.

Foulis, James, Scotland

1875.	1876.
Imlach, Francis, England	Cunningham, Daniel John, Scot.
Major, Herbert Coddington, Jersey	Dickinson, Edw. Harriman, Eng.
Stirling, William, Scotland	Macgillivray, Chas. Watson, Scot.

1877.

Byrom Bramwell, England.
George Hunter Mackenzie, Scotland.
John Halliday Scott, Scotland.
Graham Steell, Scotland.

LIST OF GRADUATES WITH HONOURS IN MEDICINE.

1865:

HONOURS.....	{	Lauchlan Aitken, Scotland
	{	George Robinson Barnes, England
	{	Thomas Blunt, England
	{	John Chiene, Scotland
	{	Andrew James Duncan, India
	{	William Allan Jamieson, Scotland
	{	John Aymers M'Dougall, Scotland
	{	Peter Macpherson, Scotland
	{	John Murray Moore, England
	{	John Wyllie, Scotland

1866.

HONOURS.....	{	Robert Aldren, England
	{	Edwin Adam Briggs, England
	{	Thomas Lauder Brunton, Scotland
	{	George May Lowe, England
	{	John Macbeth, M.A., Scotland
	{	James Ramsay, M.A., Scotland

1867.

HONOURS,	{	Alexander Crombie, Scotland
	{	David Douglas Cunningham, Scotland
	{	Charles Holden, New Brunswick
	{	George Hunter, Scotland
	{	Henry Alleyne Nicholson, England
	{	John Wilson Paton, Scotland
	{	Christopher Currie Ritchie, Scotland
	{	Charles Henry Denny Robbs, England
	{	Peter Alexander Young, Australia

1868.

FIRST-CLASS HONOURS,	{	David Ferrier, Scotland
	{	James Alexander Russell, Scotland
SECOND-CLASS HONOURS,	{	James Wilkie Burman, England
	{	Charles Stewart Clouston, Orkney
	{	Robert Dick, Scotland.
	{	William Young Paton, Scotland

1869.

FIRST-CLASS HONOURS,.....George Amsden, England

SECOND-CLASS HONOURS, { Byrom Bramwell, England
George Kincaid Pitcairn, Scotland

1870.

FIRST-CLASS HONOURS,... { John Fraser, Scotland
Edwin Hinchcliff, England
David Page, Scotland
Robert Spence, ScotlandSECOND-CLASS HONOURS, { John Archibald Cowan, Scotland
James Williamson Edmond, India
William John Kennedy, Scotland
Alexander M'Dougall, Scotland

1871.

SECOND-CLASS HONOURS, { Joseph John Brown, England
John Clelland Clarke, Ireland
Millen Coughtrey, England

1872.

FIRST CLASS HONOURS,... { Colbourne, Louis, England.
Stirling, William, D. Sc., Scotland.SECOND CLASS HONOURS, { Ritchie, James Scotland.
Warne, William Colston, England.

1873.

FIRST CLASS HONOURS.....Alston, John Wilson, Australia

SECOND CLASS HONOURS, { Bourk, William, Jamaica
Hodgkinson, Alex., England
Jackson, Fred. Wm., England
Murray, Robt. Davidson, Scotland

1874.

FIRST-CLASS HONOURS.... { Brown, James Murdoch, Scotland
Cunningham, Daniel John, ScotlandSECOND-CLASS HONOURS, { Ewart, James Cossar, Scotland
M'Diarmid, John, Scotland
Ogilvie, James, Scotland
Ronaldson, Thos. Rutherford, Scotland
Vetch, Charles, Scotland
Currie, Andrew Stark, Scotland
Murray, Archd. Campbell, Scotland

1875.

FIRST-CLASS HONOURS, { Cheyne, William Watson, Scotland
Turnbull, Adam Robert, Scotland

SECOND-CLASS HONOURS, { Jones, Edward Owen, Wales
Kirkwood, George, Scotland
Macleod, Neil, England
Watkins, Arnold Hirst, England

1876.

FIRST-CLASS HONOURS,... { Dodds, Wm. John, England
Grant, David, Scotland

SECOND CLASS HONOURS,Smith, Andrew, Scotland

1877.

FIRST-CLASS HONOURS, { William Richardson, England
Johnson Symington, England

SECOND-CLASS HONOURS, { Isaac Bayley Balfour, Scotland
William Dick, Scotland
Charles Rumney Illingworth, England
James Scott, Scotland
James Milne Chapman, Scotland
Walter James Strang, M.A., Scotland

LIST OF CANDIDATES WHO RECEIVED THE DEGREE OF DOCTOR OF MEDICINE, THE DEGREE OF BACHELOR OF MEDICINE, AND THE DEGREE OF MASTER IN SURGERY, IN THE UNIVERSITY OF EDINBURGH, ON WEDNESDAY, AUGUST 1, 1877.

THE DEGREE OF DOCTOR OF MEDICINE, UNDER THE NEW STATUTES.

*** *Those who have obtained Prizes for their Dissertations.*

** *Deemed worthy of competing for the Dissertation Prizes.*

* *Commended for their Dissertations.*

WITH THE TITLES OF THEIR THESES.

* Balfour, Andrew, Hong Kong, M.B. and C.M., 1873. Tumours.
Barbour, James, Scotland, M.B. and C.M., 1872. Catarrh,
Pneumonia, and Pleurisy.

*** BRAMWELL, BYROM, England, M.B. (with Second Class Honours),
1869, Clinical Reports.

Bramwell, John William, England, M.B., 1873. Vivisection.

5 * Cameron, John, Scotland, M.B. and C.M., 1872. Dipsomania.

Casley, Reginald Kennedy, England, M.B. and C.M., 1874. The
Ætiology and Treatment of Chronic Gastric Ulcers.

- * Clarke, John Henry, England, M.B. and C.M., 1875. Syphilis in its relation to Pregnancy.
- Crabb, James (M.A. Aberd.), Scotland, M.B. and C.M., 1875. The relation of Diphtheria to Croup.
- ** Currie, Andrew Stark, Scotland, M.B. (with Second Class Honours), 1874. An Enquiry into the Modes of Death from various Anæsthetics.
- 10 *Eames, James Crompton, England, M.B., 1875. Osteitis Deformans.
- Fairbanks, William, England, M.B. and C.M., 1874. Nerve Storms with special reference to Hysteria.
- Garton, William, England, M.B. and C.M., 1875. Some Uses and Abuses in Practice.
- ** Gibbons, Robert Alexander, Canada, M.B. and C.M., 1874. The Ætiology of Internal Aneurism, and its Treatment by Iodide of Potassium and Galvano-puncture.
- Henry, Alexander, Scotland, M.B., 1874. Observations on a rapidly fatal case of Pericarditis from large effusion.
- 15 Holmes, James, Berwick, M.B. and C.M., 1875. Care and Treatment of the Insane.
- * Jamieson, William Allan, Scotland, M.B. and C.M., with honours, 1865. Acute Rheumatism. Received the Degree on 21st April 1877.
- * Johnston, John, Scotland, M.B. and C.M., 1874. Tubercular Meningitis in Children.
- * Johnstone, Thomas, Scotland, M.B. and C.M., 1874. Researches into the Actions of Certain Drugs in Toxic and Therapeutic Doses.
- * Jones, Abraham Emrys, Wales, M.B. and C.M., 1875. Hypopyon-Keratitis.
- 20 Lambert, Richard Anderson, France (B.A. Trinity College, Dublin), M.B., 1874. Belladonna.
- Little, James, England, M.B., 1874. Vaccination.
- Maccall, Thomas, Scotland, M.B. and C.M., 1873. The various kinds of Enemata, their Uses and Mode of Administration.
- *** MACKENZIE, GEORGE HUNTER, Scotland, M.B. and C.M., 1873. The Physiological and Therapeutical Actions of Aconite and Aconitia.
- * Nankivell, Frank, England, M.B. and C.M., 1875. Rheumatic Fever.
- 25 Parker, Charles Arundel, England, M.B. and C.M., 1873. On Phlegmasia Dolens.
- * Pearce, Joseph Channing, England, M.B. and C.M., 1871. Erythroxyton Coca.
- Porteous, Robert Burnet, England, M.B. and C.M., 1868. Actions and Uses of Hydrate of Chloral.

Graduates in Medicine.

- * Roberts, Henry Prescott, England, M.B., 1868. Intermittent Fever.
- ** Saundby, Robert, England, M.B. and C.M., 1874. The Participation by the Walls of the Blood-Vessels in the Morbid Changes of the Connective Tissue.
- 30 ***SCOTT, JOHN HALLIDAY, Scotland, M.B. and C.M., 1874. Nervous System of the Dog. Received the Degree on 21st April 1877.
- Scott, Robert, Scotland, M.B. and C.M., 1874. Treatment of Compound Fractures.
- Steuart, Roger St Clair, Scotland, M.B. and C.M., 1873. Exercise and the Influence of the Will upon the Voluntary and Involuntary Muscular Systems.
- 33 *** STEEL, GRAHAM, Scotland, M.B. and C.M., 1872. Scarlatina, with Charts illustrating the subject of Specific Fevers.

THE DEGREE OF DOCTOR OF MEDICINE UNDER THE OLD STATUTES,
WITH THE TITLE OF THE THESIS.

Stodart, Alexander Tweedie, Scotland. Leucocythaemia.

THE DEGREES OF BACHELOR OF MEDICINE AND MASTER IN SURGERY.

*Small CAPITALS indicate that the Candidate has passed the Examinations
with First Class Honours.*

*Italics indicate that the Candidate has passed the Examination with
Second Class Honours.*

Adam, John (M.A. Edin.), Scotland.	Boucher, Arthur Henry, Eng land.
Andersor, Robert Smail, Scot- land.	15 Brander, Edward Salisbury, India.
Archbold, James John, England.	Briggs, Henry, England.
Baker, Henry Morton, England.	Burn Murdoch, Thomas Monk, Scotland.
5 <i>Balfour, Isaac Bayley</i> (Sc.D. Edin.), Scotland.	Caird, Francis Mitchell, Scot land.
Baxter, Robert, Scotland.	Calder, Augustus Barclay, Scotland.
Baxter, William, Scotland.	20 Cameron, John, Scotland.
Beaumont, Charles George, England.	Carmichael, Duncan, Scotland.
Birch, De Burgh, England.	Carstairs, William Barstow, India.
10 Black, Alexander, Scotland.	Christie, William Joseph, America.
Black, George, Scotland.	Daniell, Herbert Edward, Eng- land.
Blanchard, Robert Johnstone, Nova Scotia.	
Boucaud, Albert Adolphus, Trinidad.	

- 25 Davies, Ellis Thomas, Wales.
Deverell, Henry George, India.
Dick, William, Scotland.
Dixon, Thomas, Australia.
Douglas, Charles Edward, India.
- 30 Drinkwater, Harry, England.
Druitt, Lionel, England.
Fairer, Matthew Robinson,
England.
Ferguson, Thomas, Scotland.
Foster, Nelson Spershott, Eng-
land.
- 35 Frew, William Simpson, Scot-
land.
Fyffe, John, Scotland.
Gibson, William Robert, Scot-
land.
Gloag, John, Scotland.
Hardie, Robert, Scotland.
- 40 Hart, David Berry, Scotland.
Harvey, Alfred Joseph (B.A.
M'Gill), Newfoundland.
Henderson, George, Scotland.
Horden, John Oke, Canada.
I'Anson, Welby, England.
- 45 *Illingworth, Charles Rumney*,
England.
Johnson, Peter Pearson, Eng-
land.
Johnston, Robert Colquhoun,
Scotland.
Kay, Walter Smith, Scotland.
Law, Edward, England.
- 50 Le Fevre, George, England.
Leapingwell, Edward Jodrell,
England.
Lewis, Thomas Preston, England.
Lindsay, Andrew Walker
Herdman (B.A. Dalhousie),
Nova Scotia.
Lundy, Arthur Charles James
Rudd, Canada.
- 55 Lyon, James Abercrombie,
(M.A. Edin.), Scotland.
MacCulloch, Stanhope Hast-
ings, Australia.
Mackenzie, Colin, Scotland.
- Mackenzie, Daniel, Scotland.
M'Laren, Charles, England.
- 60 MacLaren, James Farquharson,
Scotland.
M'Laughlin, Henry James, India.
M'Neill, Roger, Scotland.
Mann, Hugh William, Scotland.
Mason, James Inglis, Scotland.
- 65 Mowat, John (M.A. Edin.),
Scotland.
Murdoch, William, Scotland.
Murray, Walter, Scotland.
Penman, Peter Mitchell, Scot-
land.
Plain, Albert, Wales.
- 70 Playfair, David Thomson,
Scotland.
Pope, Thomas Henry, India.
Potter, George William, Eng-
land.
Purdie, Robert, England.
Reed, William Cash, England.
- 75 RICHARDSON, WILLIAM, Eng-
land.
Robbins, James, England.
Rowland, John, Wales.
Rowland, John William, Eng-
land.
Rundle, Cubitt Sindall, India.
- 80 *Scott, James*, Scotland.
Shannon, Julius Henry, Bar-
badoes.
Shaw, Oliver Cromwell, Eng-
land.
Smith, Thomas Henry, England.
Snadden, James, India.
- 85 Stewart, Douglas Edward,
Tasmania.
Stewart, John, Nova Scotia.
SYMINGTON, JOHNSON, Eng-
land.
Taylor, Charles Vernon, Eng-
land.
Thom, Alexander (M.A. St
And.), Scotland.
- 90 Thomson, John (M.A. Edin.),
Scotland.

Thurnam, Francis Wyatt, Eng- land.	Williamson, Robert Lamley, England.
Van Geyzel, Charles Walter, Ceylon.	Wilson, Ralph William, Eng- land.
White, Howel Holland, Wales.	98 Wood, Russell Elliott, Scotland.
95 Whitsed, John, England.	

November 24, 1877.

James Bennet, Scotland.
William Stuart Palm, Columbo.

April 23, 1878.

John Berry Haycraft, England.

THE DEGREE OF BACHELOR OF MEDICINE.

Allen, Edward, England.	5 Forbes, Duncan (M.A. Edin.), Scotland.
<i>Chapman, James Milne</i> , Scot- land,	Massiah, Benjamin Jones, Eng- land.
Daruty, Jean Aristide Clement, Mauritius.	7 <i>Strang, Walter James</i> (M.A. Edin.), Scotland.
Flint, Horace, England.	

November 24, 1877.

Peter Campbell, Scotland.
David Holmes, Malta.

THE DEGREE OF MASTER IN SURGERY.

Henry Alexander, M.B., 1874, Scotland:

The Ettles Prize for 1877 has been awarded to

WILLIAM RICHARDSON, M.B. and C.M.

The Syme Surgical Fellowship has been awarded to

WILLIAM WATSON CHEYNE, M.B. and C.M., 1875.

ANNUAL CEREMONIALS FOR GRADUATION AND ACADEMIC COSTUME.*

The Public Ceremonial of Graduation in Arts, Law, and Theology is held annually in April.

Degrees in Medicine are publicly conferred on the first of August in each year.

Graduates must appear on these occasions in the Academical Costume proper to their Degree.

The ordinary form of Gowns worn by Graduates of the University is the same in all the Faculties—viz., black silk or stuff, with long sleeves. The distinctive part of the costume is in the *Hood* appropriated to each Faculty. These Hoods are as follow :

LL.D.—Black *cloth*, lined with *blue* silk.

LL.B.—Black *silk*, lined also with *blue* silk, bordered with white fur.

D.D.—Black *cloth*, lined with *purple* silk.

B.D.—Black *silk*, lined also with *purple* silk, bordered with white fur.

M.D.—Black *cloth*, lined with *crimson* silk.

M.B. and C.M.—Black *silk*, lined with *crimson* silk, bordered with white fur.

Sc.D.—Black *cloth*, lined with *green* silk.

Sc.B.—Black *silk*, lined with *green* silk, bordered with white fur.

M.A.—Black *silk*, lined with *white* silk.

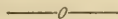
FULL DRESS FOR THE DOCTORS OF LAW, MEDICINE, AND SCIENCE.

Gown of superfine Scarlet Cloth, loose sleeves, the cape and facings down the front covered with, and the sleeves lined with rich silk of the colour proper to the Degree. Cap of black silk velvet after the John Knox fashion.

* The relative precedence of each Faculty is as follows:—1. Divinity ; 2. Law. 3. Medicine ; 4. Arts. The Deans take precedence in their respective Faculties followed by the Members of their faculties in the order of dates of their Commission.

Arts Entrance Examinations,

OCTOBER 1877.



The following passed the Entrance Examinations for a Curriculum of Three Sessions :—

Thomas Adams, George Watson's College School ; E. F. Armour, George Watson's College School ; George Brown, George Watson's College School ; H. W. Cameron Carnduff, Edinburgh Collegiate Institution ; Wm. Cotton, Royal High School ; W. J. Cullen, Ayr Academy ; Richard Davidson, Lockerbie School ; W. K. Dickson, Royal High School ; Archd. Donald, Craigmount ; Charles Drysdale, George Watson's College School ; D. S. Duncan, Royal High School ; W. B. Dunlop, Edinburgh Collegiate School ; Thomas Easton, Ayr Academy ; J. B. Ferguson, Edinburgh Collegiate Institution ; R. H. Fisher, George Watson's College School ; J. F. Gardner, Edinburgh Institution ; James Gardner, Edinburgh Collegiate Institution ; J. A. Gordon, Edinburgh Academy ; W. A. Greig, Private ; J. E. Grosset, George Watson's College School ; William Harvey, Edinburgh Academy ; E. A. H. Hunter, Royal High School ; F. Huth, Daniel Stewart's Institution ; T. D. Inglis, George Watson's College School ; Arthur Pillans Lauie, Edinburgh Academy ; A. H. W. Macdonald, George Watson's College School ; James Marwick, George Watson's College School ; Aug. A. Matheson, George Watson's College School ; D. M'Ainsh, Monzievard School ; A. M'Dougall, George Watson's College School ; David M'Nish, Dumfries Academy ; G. L. H. Milne, Fettes College ; J. I. Morrison, George Watson's College School ; F. Muirhead, Royal High School ; W. R. Pringle, Royal High School ; A. W. Renton, Glasgow Academy ; P. C. Robertson, Edinburgh Academy ; C. M. Robson, Wellfield Academy ; R. G. Rodger, Edinburgh Academy ; And. G. Scott, Royal High School ; R. B. Simmins, George Watson's College School ; John Somerville, Daniel Stewart's Institution ; G. W. Stewart, George Watson's College School ; John G. Tait, Edinburgh Academy ; E. P. Thomson, Circus Place School ; F. Wyville Thomson, Edinburgh Collegiate School ; Wm. Veitch, George Watson's College School ; And. Wishart, Royal High School.

The following have passed in Latin only :—

B. Blaine ; C. H. Linton.

The following have passed in Greek only :—

G. C. Cathcart ; Charles Chalmers ; G. G. Dickson ; Robert Dickson ; F. Easterbrooke ; A. Hood ; W. H. Kerr ; J. H. MacNair ; J. Middlemas ; A. W. M'Dougall ; A. Mackenzie ; R. S. Simpson ; A. F. Stanton ; J. P. White ; G. H. Youatt.

The following have passed the Entrance Examination in Mathematics :—

Thos. Adams, George Watson's College School ; Wm. Allan, George Watson's College School ; Edward F. Armour, George Watson's College School ; Benjamin Blaine, Lovedale Missionary Institution ; George Bander, George Watson's College School ; George Brown, George Watson's College School ; H. W. Cameron Carnuff, Edinburgh Collegiate Institution ; John Chapman, George Watson's College School ; Alex. Cleghorn, Madras College, St. Andrews ; Wm. Cotton, Royal High School ; Richard Davidson, Lockerbie Public School ; G. G. Dickson, Blair Lodge ; Chas. Drysdale, George Watson's College School ; Wm. Brown Dunlop, Edinburgh Collegiate School ; Thos. Easton, Ayr Academy ; Jas. B. Ferguson, Edinburgh Collegiate School ; Robert H. Fisher, George Watson's College School ; Jas. Gardner, Edinburgh Collegiate School ; Jas. Francis Gardner, Edinburgh Institution ; Geo. Garson, Royal High School ; Archie Gray, Ayr Academy ; Jas. E. Grosset, George Watson's College School ; Wm. Harvey, Edinburgh Academy ; F. Huth, Daniel Stewart's Institution ; Thos. D. Inglis, George Watson's College School ; Geo. Irving, Dumfries Academy ; Chas. H. Linton, George Watson's College School ; A. M'Dougall, George Watson's College School ; A. W. M'Dougall, George Watson's College School ; F. E. M'Garth, George Watson's College School ; A. D. M'Gregor, Inverness Academy ; Jas. M'Isaac, Ch. of Scot. Training College ; Archd. M'Kenzie, Milton College, Natal ; R. D. MacLagan, Merchiston College School ; David M'Nish, Dumfries Academy ; Jas. Marwick, George Watson's College School ; A. A. Matheson, George Watson's College School ; Jas. Middlemas, George Watson's College School ; John T. Morrison, George Watson's College School ; Alfred A. Murray, George Watson's College School ; Geo. Keppy Paterson, George Watson's College School ; Wm. Robt. Rae, Stromness Public School ; Pat. Chas. Robertson, Edinburgh Academy ; Andrew G. Scott, Royal High School ; Robert S. Simpson, George Watson's College School ; John Somerville, Brand's School ; A. T. Stanton, George Watson's College School ; Geo. Wauchope Stewart, George Watson's College School ; John G. Tait, Edinburgh Academy ; Wm. Veitch, George Watson's College School ; John E. Vernon, George Watson's College School ; Q. Wallace ; Adam Watt, Daniel Stewart's Institution ; Andrew Wishart, Royal High School.

Competitive Examinations

FOR BURSARIES.

FACULTY OF ARTS—HONOUR LIST.

ORDER OF MERIT.

Saturday, October 27, and Monday, October 29, 1877.

Students of First Year.

		Bursaries.
1. TAIT, J. G.,	<i>Edinburgh Academy,</i>	Forrest.
2. COTTON, W.,	<i>Royal High School,</i>	Sibbald.
3. ROBERTSON, P. C.,	<i>Edinburgh Academy,</i>	Fotheringham.
4. GARNER, J.,	<i>Edinburgh Collegiate Insti.,</i>	Tyndall-Bruce.
5. SCOTT, A. G.,	<i>Royal High School.</i>	
6. ADAMS, T.,	<i>George Watson's Col. School.</i>	
7. WISHART, A.,	<i>Royal High School.</i>	
8. HARVEY, W.,	<i>Edinburgh Academy.</i>	
9. GROSSET, J. E.,	<i>George Watson's Col. School.</i>	
10. { M'NISH, D.,	<i>Dumfries Academy,</i>	M'Diarmid.
{ MUIRHEAD, F.,	<i>Royal High School.</i>	
12. MARWICK, J.,	<i>George Watson's Col. School.</i>	
13. FISHER, R. H.,	<i>George Watson's Col. School,</i>	Ayrshire.
14. SOMERVILLE, J.,	<i>Daniel Stewart's Institution.</i>	
15. FERGUSON, J. B.,	<i>Edinburgh Collegiate Insti.</i>	
16. WATT, A.,	<i>Daniel Stewart's Institution.</i>	
17. CARNDUFF, H. W. C.,	<i>Edinburgh Collegiate Insti.</i>	
18. { DUNLOP, W. B.,	<i>Edinburgh Collegiate Insti.</i>	
{ EASTON, T.,	<i>Ayr Academy.</i>	
20. MILNE, G. S. H.,	<i>Fettes College.</i>	
21. DICKSON, W. K.,	<i>Royal High School.</i>	
22. VEITCH, W.,	<i>George Watson's Col. School.</i>	
23. RODGER, R. G.,	<i>Edinburgh Academy,</i>	Border Counties.
24. GARDNER, J. F.,	<i>Edinburgh Institution.</i>	

Students of Second Year.

1. STEWART, F. W.,	<i>Aberdeen,</i>	Tyndall-Bruce.
2. JOHNSTONE, T.,	<i>Dumfries.</i>	
3. M'NEILL, G. B.,	<i>Edinburgh.</i>	

Students of Third Year.

1. MITCHELL, R.,	<i>Yarrow,</i>	Horsliehill-Scott.
2. OLIPHANT, J.,	<i>Edinburgh,</i>	Harrison.
3. LAIRD, D. M.,	<i>Cupar-Fife.</i>	
4. SUTHERLAND, J.,	<i>Sutherlandshire,</i>	Macpherson.

Class Prize Lists.

SESSION, 1877-78.

FACULTY OF ARTS.

I.—HUMANITY.

SUMMER SESSION, 1877.—SENIOR TUTORIAL CLASS.

1. F. W. Stewart, Letham, Forfarshire ; 2. W. B. Hardie, Edinburgh, and Mungo Watson, Sorn, Ayrshire—equal ; 4. R. Law, Broxburn ; 5. W. L. Robertson, Edinburgh, and G. P. M'Neill, Edinburgh—equal ; 7. James Seth, Edinburgh. *Honourable Mention*.—1. James Frame, Edinburgh, and R. B. Lockhart, Edinburgh—equal ; 3. Thomas Fraser, Edinburgh, and D. M. Tod, Glasgow—equal ; 5. Bannatyne M'Leod, Edinburgh.
- LATIN PROSE.—1. W. R. Hardie and Mungo Watson—equal ; 3. F. W. Stewart.

JUNIOR CLASS.

1. R. Davidson, Fifeshire ; 2. R. Arthur, Bathgate, and R. F. Bishop, Edinburgh—equal. *Honourable Mention*—1. W. H. Jennings, Driffield ; 2. G. A. Ballingall, Edinburgh.
- LATIN PROSE.—W. H. Jennings. *Honourable Mention*—G. A. Ballingall.

GEO. STRATHAIRN,

Assistant to the Professor of Humanity.

WINTER SESSION, 1877-78.

THIRD CLASS.

- PRIZES FOR GENERAL EXCELLENCE.—1. John C. Lambert, Rigg of Gretna ; and Mungo Watson, Ayr—equal (*Medals*) ; 3. John G. Tait, Edinburgh.
- CERTIFICATES OF MERIT.—1. Alexander Smellie, Edinburgh, and Andrew Porteous, Dalkeith—equal ; 3. Stewart H. Capper, Edinburgh ; 4. W. Robertson, Ayr ; 5. Alexander Ferguson, Invergordon.
- LATIN PROSE COMPOSITION.—Mungo Watson. *Honourable Mention*—John C. Lambert.

ENGLISH ESSAYS.—John C. Lambert and Alexander Smellie—equal.
 LATIN VERSE.—W. G. Macpherson, Ross-shire. *Honourable Mention*
 —W. Robertson.
 SUMMER WORK (1877).—(1) Readings—J. C. Lambert and Mungo
 Watson—equal. (2) Latin Prose Exercise—Mungo Watson.

SENIOR CLASS.

PRIZES FOR GENERAL EXCELLENCE.—1. W. R. Hardie, Edinburgh;
 2. F. W. Stewart, Letham, Forfarshire; and John G. Tait, Edin-
 burgh—equal (*Medals*); 4. R. Law, Broxburn; 5. G. P. M'Neill,
 Edinburgh; 6. P. C. Robertson, Edinburgh; 7. Alexander
 Hunter, Lochgelly; 8. Thomas Johnstone, Lochmaben; 9. W.
 Cotton, Edinburgh; 10. C. H. Hunter, Edinburgh; 11. G. L.
 H. Milne, Fyvie, Aberdeenshire; John Lamont, Aberdeen; and
 W. Pringle, Edinburgh—equal.

CERTIFICATES OF MERIT.—1. John G. Andrew, Edinburgh; 2. An-
 drew Wishart, Burntisland; 3. Maxwell Mackie, Buckie; 4. W.
 B. Hutton, Closeburn, Dumfriesshire; 5. Donald Iverach,
 Halkirk, Caithness; 6. D. M. Forrester, Edinburgh; 7. Thomas
 Porteous, Edinburgh; 8. A. Campbell Fraser, Edinburgh; 9. D.
 M. M'Intyre, Monikie, Forfarshire; 10. R. B. Bishop, Edinburgh;
 11. John D. Robertson, Dunkirk; 12. W. Sinclair, Bower,
 Caithness.

LATIN PROSE COMPOSITION.—1. W. R. Hardie; 2. John G. Tait; 3.
 F. W. Stewart.

LATIN VERSE.—G. L. H. Milne. *Honourable Mention*—John G.
 Tait.

SUMMER WORK.—W. R. Hardie.

JUNIOR CLASS.

PRIZES FOR GENERAL EXCELLENCE.—1. Wastell Arrowsmith, Lon-
 don; 2. Lothian Gray, Edinburgh; 3 and 4. James E. Grosset,
 Markinch, Fifeshire; and James Marwick, Edinburgh—equal
 (*Medals*); 5 and 6. R. H. Fisher, Orkney; and R. S. Simpson,
 Edinburgh—equal; 7. A. Hutt, Fifeshire; 8. C. H. Todd,
 Stirling; 9 and 10. W. L. Carrie, Forfarshire; and D. M'Nish,
 Dumfriesshire—equal; 11. A. M'Dougall, Edinburgh; 12.
 Thomas Adams, Bo'ness; 13. R. Dickson, Crawford; 14. George
 N. Stewart, Caithness; 15. C. Drysdale, Edinburgh.

CERTIFICATES OF MERIT.—1. W. Buchan, Hamilton; 2. C. H. Lin-
 ton, Edinburgh; 3. A. B. Wann, Perth; 4. Thomas F. Husband,
 Wigtown; 5. R. B. Simmons, Edinburgh; 6. A. Soutar, Brechin;
 7. James F. Gardner, Poona, India; 8. Adam Watt, Edinburgh;
 9. F. Georgeson, Caithness; 10. John Langlands, Montrose; 11.
 Duncan M. M'Gregor; 12. John C. Steedman, Stirling; 13. C.

M. Robson, Dunse; 14. James M. Ross, Forfar; 15. James Crichton, Edinburgh.
 LATIN PROSE COMPOSITION. — 1. W. Arrowsmith; 2. James E. Grosset; 3. James Marwick.
 HISTORY.—W. L. Carrie.
 HONOURABLE MENTION.—Lothian Gray and R. S. Simpson—equal.
 SUMMER WORK for Students entering the Senior Class in November 1878—"The Æneid" of Virgil.

W. Y. SELLAR, *Professor*.

II.—GREEK.

SUMMER SESSION 1877.—SENIOR CLASS.

SENIOR DIVISION.—PRIZES FOR GENERAL EXCELLENCE.—1. George Park, Brooklyn, and Mungo Watson, Sorn—equal; 3. William Augustus Wilson, Monkton; 4. Robert Bruce Lockhart, Montreal, and William Lewis Robertson, Kilmarnock—equal.

PRIZES FOR GREEK PROSE COMPOSITION.—George Park and Mungo Watson—equal.

JUNIOR DIVISION.—PRIZES FOR GENERAL EXCELLENCE.—1. W. R. Hardie, Edinburgh; 2. Robert Law, Broxburn, and Frederick W. Stewart, Letham—equal; 4. George P. M'Neill, Edinburgh; 5. Thomas Andrew Dickson, Edinburgh; 6. James Seth, Edinburgh; 7. James Frame, Peterhead, and David M'Rae Tod, Glasgow—equal.

CERTIFICATES OF MERIT.—1. David M. Forrester, Keith; 2. Alexander Campbell Fraser, Edinburgh, and Alexander Horn, Clackmannanshire—equal; 4. John Logie Robertson, Orwell.

A Certificate of Merit was also awarded to Thomas Fraser, Edinburgh, for his merit in the first examination; he was prevented by ill-health from taking part in the second examination.

PRIZES FOR GREEK PROSE COMPOSITION.—1. W. R. Hardie and R. Law—equal; 3. F. W. Stewart.

CERTIFICATE OF MERIT.—G. P. M'Neill.

JUNIOR CLASS.

PRIZES FOR GENERAL EXCELLENCE.—1. William Pringle, Edinburgh; 2. Robert Arthur, Bathgate; 3. James Ronaldson, Longridge; 4. John M'Farlane, Rothesay.

PRIVATE READINGS.—*First Series*—Robert Arthur; *Second Series*—1. Robert Arthur; 2. James Ronaldson.

WINTER SESSION, 1877-78.—SENIOR CLASS.

PRIZES FOR GENERAL EXCELLENCE.—W. R. Hardie, Edinburgh (*Scott-Dunbar Prize, £15, and Medal*); 2. Robert Law, Broxburn (*Medal*); 3. Frederick W. Stewart, Letham; 4. G. L. H. Milne, Aberdeenshire; 5. G. P. M'Neill, Edinburgh; 6. Thomas John-

stone, Lochmaben; 7. John A. Thomson, Haddingtonshire; 8 and 9. P. C. Robertson, Edinburgh; and D. M. Tod, Edinburgh—equal; 10. D. M. Forrester, Keith.

CERTIFICATES OF MERIT.—1. J. G. Andrew, Edinburgh; 2 and 3. A. Hunter, Lochgelly; and W. Pringle, Edinburgh—equal; 4. A. Campbell Fraser, Edinburgh; 5. D. S. Duncan, Edinburgh; 6. J. G. Tait, Edinburgh; 7 and 8. A. Horn, Clackmannanshire; and D. Iverach, Caithness—equal; 9. J. Frame, Edinburgh; 10. W. Cotton, Edinburgh; 11. G. R. Giddings, Edinburgh; 12. A. Wishart, Burntisland; 13 and 14. R. Davidson, Lockerbie; and F. Muirhead, Glasgow—equal; 15 and 16. R. Arthur, Bathgate; and W. B. Hutton, Dumfriesshire—equal; 17, 18, and 19. R. Beveridge, Edinburgh; M. H. Mackie, Rathven; W. Veitch, Edinburgh—equal; 20. D. F. Mackenzie, Inverness.

PRIVATE READINGS—*First Series*—R. Law. *Honourable Mention*—W. R. Hardie. *Second Series*—W. R. Hardie.

GREEK HISTORY—J. E. Guild, Broughty Ferry. *Honourable Mention*—P. C. Robertson.

PHILOLOGY—P. C. Robertson. *Honourable Mention*—D. M. Tod.

POETRY—G. P. McNeill. *Honourable Mention*—O. W. Renton.

TUTORIAL PRIZES.

GREEK PROSE COMPOSITION.—1. W. R. Hardie; 2. R. Law; 3. F. W. Stewart.

JUNIOR CLASS.

PRIZES FOR GENERAL EXCELLENCE.—1. Andrew H. Hutt, Newburn; 2. James E. Grosset, Markinch; and Alexander M'Dougall, Edinburgh—equal (*Medals*); 4. James Marwick, Edinburgh; and C. M. Robson, Dunse—equal; 6. C. H. Todd, Kinross; 7. Thomas Adams, Bo'ness; 8. David M'Nish, Lochmaben; 9. Robert H. Fisher, Ayrshire; 10. Adam Watt, Edinburgh.

CERTIFICATES OF MERIT.—1. James Crichton, Perth; 2. Robert S. Simpson, Victoria; 3. Charles Drysdale, Aberdeen; 4. William Buchan, Hamilton; 5. Lothian Gray, Edinburgh; 6. C. H. Linton, Edinburgh; 7. Robert Dickson, Crawford; 8. John Langlands, Montrose; Alexander Horn, Kippen; 10. Thomas F. Husband, Wigtown; 11. C. G. Sørensen, Leith; 12. Alexander Fisher, Edinburgh; 13. John H. Macdonald, Edinburgh; 14. John Galletly, Edinburgh; 15. James F. Gardner, Poonah; 16. R. B. Simmins, Edinburgh; 17. Ben. Blaine, S. Africa.

PRIVATE READINGS.—*First Series*—A. Hutt. *Second Series*—A. Hutt. *Honourable Mention*—W. Buchan.

TUTORIAL PRIZES.

GREEK PROSE COMPOSITION.—1. J. E. Grosset ; 2. A. Hutt ; 3. L. Gray.

GREEK GRAMMAR.—1. James Marwick ; 2 and 3. J. Galletly, and L. Gray—equal.

GREEK HISTORY.—James M. Campbell, Markinch.

SUMMER READINGS for Students entering the Senior Class, Session 1878-9, *Odyssey*, whole—first prize ; *Odyssey I.—XII.*, second prize ; for students entering the third class, the plays of Sophocles.

JOHN KEITH, B.D., for Professor BLACKIE.

III.—MATHEMATICS.

SUMMER SESSION, 1877.—TUTORIAL CLASS.

PRIZES.—1. James Rousseau, Edinburgh ; 2. John G. Horn, Edinburgh ; 3. Hugh D. M'Intyre, St Andrews ; 4. Percy Paton, Lubeck.

CERTIFICATES OF MERIT.—1. Maxwell James Wright, St Andrews ; 2. Traill Oman, Caithness ; 3. Robert Fitzroy Bell, Edinburgh ; 4. W. D. R. Smith, Calcutta.

PRIZE FOR PRIVATE READINGS.—F. Handasyde Pattison, Edinburgh.
R. K. GALLOWAY,

Assistant to the Professor of Mathematics.

WINTER SESSION, 1877-78.

FIRST CLASS.

PRIZEMEN.—1. F. W. Stewart, Forfarshire (*Medal*) ; 2. G. F. Alexander, Broughty Ferry ; T. Johnstone, Dumfriesshire ; and John Arthur Thomson, Haddingtonshire—equal ; (*Medals*) ; 5. Alexander Hunter, Fife ; 6. C. J. Middleton, Aberdeenshire ; 7. David Fraser, Aberdeenshire ; 8. William Bell, Forfarshire ; 9. William Ritchie, Edinburgh ; 10. John A. M'Hardy, Aberdeen ; 11. A. D. Macgregor, Ross-shire ; 12. Allan Cameron, Aberdeenshire ; 13. Arthur T. Stanton, Edinburgh ; and D. M'Rae Tod, Edinburgh—equal ; 15. Robert Carmichael, Edinburgh ; 16. K. Hunter, Dumfriesshire ; 17. J. Crawford, Perthshire ; 18. M. Mackie, Banffshire ; 19. William Jamieson, Edinburgh ; 20. W. Rae, Orkney ; 21. W. Sinclair, Caithness ; 22. D. Henderson, Caithness ; and Paul Forrester Snowdowne, Cockenzie—equal ; 24. Robert Law, Broxburn ; R. Hastings, Kirkcudbrightshire ; and William Macdonald, Kincardineshire—equal ; 27. R. Blair, Wigtownshire ; and W. Graham, Dumfriesshire—equal ; 29. James Clark, Fifeshire ; 30. John Mitchell, Fifeshire ; 31. W.

Johnstone, Lanark ; 32. William Mackenzie, Banffshire ; and J. D. Robertson, Edinburgh—equal ; 34. James Waugh, Edinburgh ; 35. Patrick S. Mackintosh, Arbroath ; 36. A. Campbell Fraser, Edinburgh.

CERTIFICATES OF MERIT.—1. John Dinwiddie, Dumfriesshire ; 2. D. F. Mackenzie, Inverness ; 3. James Frame, Edinburgh ; James Shearer, Banffshire ; and George P. M'Neill, Edinburgh—equal ; 6. David Greig, Forfarshire ; James Hamilton, Linlithgowshire ; and John G. Paterson, London—equal ; 9. Thomas Martin, Perthshire ; 10. David R. Kyd, Forfarshire ; 11. Richard Davidson, Dumfriesshire ; and James Rutherford, Roxburghshire—equal ; 13. William Smith, Aberdeen ; 14. John Bruce, Caithness ; 15. William A. Farquhar, Aberdeen ; 16. David Baxter, Edinburgh ; and D. Iverach, Caithness—equal.

SECOND CLASS.

PRIZEMEN.—1. John Sutherland, Sutherlandshire ; 2. Peter Campbell, Shapinsay ; and John G. Horn, Edinburgh—equal (*Medals*) ; 4. John T. Roberts, Selkirkshire ; 5. Hay Shennan, Edinburgh ; 6. Edward Kerr, Dumfries ; 7. James Milne, Edinburgh ; 8. Thomas Fraser, Edinburgh ; 9. Richard P. Fleming, Forfarshire ; 10. Harry Ranken, Edinburgh ; 11. George H. Boyd, Edinburgh ; 12. A. G. Young, Ayr ; 13. W. Lewis Robertson, Ayr ; 14. R. H. Guild, Forfarshire ; 15. John Lundie, Forfarshire ; 16. W. Smith, Dumfriesshire ; 17. R. J. Mackay, Edinburgh.

CERTIFICATES OF MERIT.—1. William L. Carrie, Forfarshire ; 2. D. M. Campbell, Ayr ; 3. J. G. Walton, Edinburgh ; 4. J. P. Duncan, Edinburgh ; 5. John Ewing, Perthshire ; 6. W. W. Forbes, Cupar-Fife ; 7. William M. Macgregor, Lanarkshire ; 8. John A. Loudon, Edinburgh.

THIRD CLASS.

PRIZEMEN.—1. William Welsh, Edinburgh (*Medalist*) ; 2. Austin Fleeming Jenkin, Middlesex ; 3. James Stobo, Haddingtonshire ; 4. William Harvey, Edinburgh ; 5. David Smart, Perthshire.

CERTIFICATES OF MERIT.—1. William H. Winter ; 2. William Milne, Inverurie ; 3. James B. Williams, Mid-Lothian.

PHILIP KELLAND, *Professor*.

IV.—LOGIC AND METAPHYSICS.

SENIOR CLASS.

PRIZEMEN.—1. Bruce of Grangehill and Falkland's Prize—Andrew Seth, M.A. Edinburgh (*Medal*) ; 2. Jacob Gould Schurman, B.A. Lond., Canada (*Medal*) ; 3. John Cairns, Roxburghshire ; and John W. Mudie, Hamilton—equal,

CERTIFICATE OF MERIT.—Alexander Philip, Portobello.

John Fraser, B.A. Lond., Inverness-shire, was highly distinguished in the early part of the Session, but was prevented by duties elsewhere from sharing in the work of the Class afterwards.

JUNIOR CLASS.

PRIZEMEN. — 1. William C. Fraser, Lanarkshire; and Robert J. Mackay, Edinburgh — equal (*Medals*); 3. Robert Mitchell, Yarrow; and John D. Robertson, Wick—equal; 5. James Oliphant, Edinburgh; 6. Hugh Falconer, Edinburgh; J. R. N. Macphail, Kincardineshire; Hay Shennan, Edinburgh; and John Stevens, Bridge of Earn—equal; 10. John W. Slater, Kirkwall; 11. Thomas A. Bickerton, Kirkcudbright; Alexander Morton, Edinburgh; and James G. Walton, Edinburgh—equal; 14. J. R. Macdonald, St Andrews; William Nicol, Forfar; W. P. Paterson, Peeblesshire; and James S. Robertson, Balfron—equal.

J. Anderson Brown, Galashiels, was highly distinguished in the early part of the Session, but unable afterwards from illness to share in the work of the Class.

CERTIFICATES OF MERIT.—1. G. H. Boyd, Edinburgh; J. A. Grant, Perthshire; and W. O. Ramsay, Dumfriesshire—equal; 4. John Davidson, Aberdeenshire; Walter Smith, Dumfriesshire; and William Tough, Edinburgh—equal; 7. W. A. Farquhar, Aberdeenshire; G. R. Giddings, London; J. S. Haldane, Edinburgh; and H. Ranken, Edinburgh—equal; 11. J. G. T. Lowson, Dundee; and J. B. Milne, Edinburgh—equal; 13. James Terras, Glasgow; 14. Joseph Nicol, Dundee; 15. David M. M'Intyre, Forfarshire; 16. G. W. Brown, Penang; P. F. Snowdowne, Cockenzie; and William Thomson, Fort-William—equal; 19. Duncan Maclellan, Kingussie; and Thomas Wilkie, Paisley—equal; 21. J. D. Hardie, Fraserburgh; and H. R. Reekie, Fife-shire—equal.

A. CAMPBELL FRASER, LL.D., *Professor*.

V.—MORAL PHILOSOPHY.

(The numbers indicate the proportion of marks out of 600.)

PRIZEMEN.—1. John W. Mackail, Ayr, 541; 2. J. Douglas Watters, Aberdeen, 526; 3. David Munro Fraser, Inverness, 520 (*Medals*); 4. A. H. Dinwiddie, Edinburgh, 500; 5. J. H. Ballantyne, Langholm, 499; 6. R. Bruce Lockhart, Edinburgh, 494; 7. John W. Mudie, Hamilton, 490; 8. James M'Laren, Comrie, Perthshire, 485; 9. J. D. Robertson, Wick, 482; 10. J. Mackie Whyte, Nairnshire, 481; 11. John R. Fleming, Edinburgh, 472; 12. Alexander Small, Dunfermline, 471.

CERTIFICATES OF MERIT.—1. Charles E. Little, Cork; and John Wilson, Falkirk—equal, 470; 2. William B. T. Davidson, Edin-

burgh, 468; 3. James Kinnear, Arbroath, 467; 4. David M. W. Laird, Cupar-Fife, 466; 5. Andrew W. Williamson, Thornhill, Dumfriesshire, 465; 6. Mungo Watson, Ayr, 460; 7. John Bruce, Cellardyke, Fife, 457; 8. Hugh Falconer, 456; 9. Peter Duncan, Kinross-shire; and William Welsh, Edinburgh, 455; 10. John Dobie, Berwickshire, 454; 11. Thomas John Boyd, Edinburgh; David M'Ewan Morgan, Edinburgh; and Ernest Woodhead, Huddersfield—equal, 451.

ADVANCED CLASS.

(The numbers indicate the proportion of marks out of 200.)

1. Andrew Seth, Edinburgh, 172 (*Medal*); 2. J. Gould Schurman, B.A. Lond., Canada, 163; 3. John Chisholm, Perth, 153; 4. John Cairns, Roxburghshire, 140.

HENRY CALDERWOOD, LL.D., *Professor*.

VI.—NATURAL PHILOSOPHY.

SUMMER SESSION, 1877.—TUTORIAL CLASS.

UNIVERSITY CERTIFICATES.—1. J. B. Milne, Edinburgh; 2. John G. Horn, Edinburgh, and W. Lewis Robertson, Edinburgh—equal.

PRIZE FOR THE BEST IN THE WRITTEN EXAMINATIONS.—Maxwell Wright, Singapore.

SPECIAL PRIZE.—D. J. Grahame.

P. R. SCOTT LANG,

Assistant to the Professor of Natural Philosophy.

WINTER SESSION, 1877-78.

ADVANCED CLASS.

UNIVERSITY CERTIFICATES OF HONOUR.—1. D. Traill, Ayrshire; 2. W. O. Walker, Edinburgh; 3. L. B. Wood, Peebles; 4. W. Thomson, Perthshire; 5. James Stobo, Haddington; 6. Thomas Low, Edinburgh.

UNIVERSITY CERTIFICATE OF MERIT.—7. Alexander Horn, W. Milne, and S. Walker—equal.

ORDINARY CLASS.

HIGHER DIVISION.

PRIZEMEN.—1. W. F. Gourlay, Forfarshire; 2. A. Fleeming Jenkin, Middlesex (*Medals*); 3. James Maedonald, Ayr; 4. G. Deuchars, Forfar; and W. H. Winter, Moray—equal; 6. D. M. Campbell, Ayrshire.

UNIVERSITY CERTIFICATES.—7. R. T. Omond, Edinburgh; 8. G. J. Ranken, Ayrshire; and A. C. Renton, Berwickshire—equal.

LOWER DIVISION.

PRIZEMEN.—1. W. L. Goodwin, New Brunswick; 2. W. Harvey, Edinburgh; and A. A. Kyd, Dundee—equal (*Medals*); 4. G. H. Boyd, Edinburgh; and John Sutherland, Sutherland—equal; 6. D'Arcy W. Thompson, Edinburgh; 7. J. R. Macdonald, St Andrews; and James Milne, Edinburgh—equal; 9. W. Jamieson, Edinburgh; R. J. Mackay, Edinburgh; and A. T. Stanton, Edinburgh—equal; 12. W. L. Robertson, Ayr; 13. John Lundie, Forfarshire; and H. Ranken, Edinburgh—equal; 15. W. W. Forbes, Fife; and H. K. Reekie, Fife—equal.

UNIVERSITY CERTIFICATES.—17. James Anderson, Forfarshire; and Alexander Morton, Edinburgh—equal; 19. H. M. Cadell, Linlithgow; Thomas Fraser, Edinburgh; J. G. Horn, Edinburgh; and Arthur Shearer, Edinburgh—equal; 23. D. N. Maclellan, Inverness-shire; Hay Shennan, Edinburgh; P. F. Snowdowne, East Lothian; James Stuart, Inverness; and James Waugh, Lanark—equal; 28. J. B. Milne, Edinburgh; and J. G. Walton, Edinburgh—equal; 30. T. A. Dickson, Edinburgh; E. J. Duncate, Worcester; and John Ewing, Perthshire—equal; 33. W. L. Carrie, Forfar; Thomas Ferguson, Perthshire; and R. D. B. Gemmell, Edinburgh—equal.

FORTNIGHTLY EXAMINATIONS.—1. Gourlay (*Prizeman*); 2. Jenkin; 3. J. Macdonald; 4. Kyd; 5. Goodwin, and Thompson—equal; 7. Omond, and Renton—equal; 9. Boyd, Campbell, Deuchars, Harvey, Jamieson, J. R. Macdonald, Mackay, J. Milne, Reekie, Robertson, and Sutherland—equal.

PHYSICAL LABORATORY.

The following are highly commended:—

Blaikie, Campbell, Cleghorn, Goodwin, Haldane, Kirk, J. Macdonald, Omond, Ranken, Smart, Stobo, Thompson.

The Neill Arnott Scholarship is awarded to Kirk.

P. G. TAIT, *Professor*.

VII.—RHETORIC AND ENGLISH LITERATURE.

1. CLASS PRIZES AND CERTIFICATES OF HONOUR.

PRIZEMEN.—1. John W. Mackail, Ayr; 2. Robert D. Shaw, Bridge of Allan; 3. David Munro Fraser, Inverness (*Medals*); 4. John C. Lambert, Trinidad; 5. William Welsh, Edinburgh; 6. Thomas John Boyd, Edinburgh; 7. Scott Moncreiff Penney, Glasgow; 8. Stewart H. Capper, London; 9. Robert Young, Falkirk; 10. Robert Mackintosh, Dunoon; 11. Alexander Philip, Portobello; 12. Roger S. Kirkpatrick, Hamilton; 13 and 14. David M. W. Laird, Cupar-Fife; and Andrew W. Williamson, Dumfriesshire—

equal; 15. David C. Scott, Edinburgh; 16. James Robertson, Kirkmichael; 17 and 18. John Davidson, Aberdeenshire; and John M. Whyte, Nairnshire—equal; 19. Charles E. Little, Limerick; 20. Hugh S. Stuart, Pennsylvania; 21 and 22. John Duncan, Fifeshire; and R. Bruce Lockhart, Montreal—equal; 23. James Todd, Edinburgh.

CERTIFICATES OF HONOUR.—1, 2, and 3. David Fraser, Huntly; William Tough, Edinburgh; and Ernest Woodhead, Huddersfield,—equal; 4 and 5. James M. Hamilton, Ayrshire; and William Mowat, Edinburgh—equal; 6. Charles J. Middleton, Aberdeen; 7. William Jamieson, Edinburgh; 8. William N. Martin, Dundee; 9. John R. Fleming, Kirkcaldy; 10. Francis W. Sinclair, Edinburgh; 11. A. H. Dinwiddie, Edinburgh; 12. John Foster, Linlithgow; 13. William Melvill Sym, Edinburgh; 14 and 15. John Bruce, Fife; and J. R. Dunlop Smith, Calcutta—equal; 16. James Mackintosh, Arbroath; 17. William Macdonald, Caithness; 18. Robert Maitland, Aberdeenshire; 19. William Grant Macpherson, Ross-shire; 20. John D. Hardie, Strichen; 21. W. Crosby Barlow, Durham County; 22. John Milne, Aberdeen; 23 and 24. David B. Robertson, Fifeshire; and Kirkpatrick Hunter, Dumfries—equal.

2. ESSAY PRIZES AND CERTIFICATES OF HONOUR.

PRIZEMEN.—1. John W. Mackail, Ayr; 2 and 3. James M. Hamilton, Ayrshire; and David M'Ewan Morgan, Edinburgh—equal (*Medalists*); 4. John C. Lambert, Trinidad; 5. Robert Mackintosh, Dunoon; 6. Alexander Philip, Portobello; 7. Ernest Woodhead, Huddersfield; 8. John Milne, Aberdeen; 9 and 10. Stewart H. Capper, London; and Archibald H. Dinwiddie, Edinburgh—equal; 11. Joseph M. Harkom, Edinburgh; 12, 13, and 14. W. Crosby Barlow, Durham County; James Macdonald, Ayr; and James Mackintosh, Arbroath—equal.

CERTIFICATES OF HONOUR.—1. Andrew W. Williamson, Dumfries-shire; 2 and 3. W. N. Polson, Jedburgh; and John M. Whyte, Nairnshire—equal; 4. John Dobie, Musselburgh; 5. Robert D. Shaw, Bridge of Allan; 6 and 7. John R. Fleming, Kirkcaldy; and James Hamilton, Whitburn—equal; 8 and 9. John Reid, Edinburgh; and Peter C. Stewart, East Prussia—equal; 10 and 11. Charles E. Little, Limerick; and Scott Moncreiff Penney, Glasgow—equal; 12 and 13. David M. Fraser, Inverness; and W. Grant Macpherson, Ross-shire—equal.

3. FOR WORK AND EXAMINATION IN OLD ENGLISH.

PRIZE.—William J. N. Liddall, Edinburgh.

4. FOR POETICAL COMPOSITION.

PRIZE.—John W. Mackail, Ayr.

DAVID MASSON, *Professor*.

VIII.—AGRICULTURE AND RURAL ECONOMY.

CLASS MEDAL.—John Henderson, Northumberland.

FIRST CLASS CERTIFICATES.—John Henderson, 91 per cent. ; John Craig, Perthshire, 90 ; W. M. Murray, Dumfries, 82 ; James Cannan, Galloway, 81 ; F. M. M'Laren, Northumberland, 75.

SECOND CLASS CERTIFICATES.—J. G. M'Neil, Edinburgh, 73 per cent. ; J. E. Nonnen, Sweden, 72 ; J. S. Cottam, Edinburgh, 63 ; F. Fraser, Edinburgh, 63 ; Robert Malloch, Perthshire, 62 ; J. M'C. Reid, Buenos Ayres, 59.

HIGHLAND SOCIETY'S PRIZES OF £6 AND £4 IN BOOKS.—1. John Craig, Perthshire ; 2. J. E. Nonnen, Sweden.

JOHN WILSON, *Professor*.

IX.—ENGINEERING.

DRAWING CLASS.

WINTER SESSION, 1876-77.

MEDAL AND FIRST CLASS CERTIFICATE.—Alexander A. Kyd, Dundee. FIRST CLASS CERTIFICATE—William W. Webster, Arbroath.

SUMMER SESSION, 1877.

MEDAL, FIRST PRIZE, AND FIRST CLASS CERTIFICATE.—Alexander A. Kyd, Dundee, 82 per cent. FIRST CLASS CERTIFICATES—C. E. Stewart, Edinburgh ; George Deuchars, Broughty-Ferry. SECOND CLASS CERTIFICATES—Alexander C. Renton, Coldingham ; Francis W. M'Lean, Boston, U.S.A.

WINTER SESSION, 1877-78.

MEDAL AND FIRST PRIZE.—Alexander A. Kyd, Dundee, 85 per cent.

SECOND PRIZE.—W. F. Gourlay, Dundee, 83 per cent.

THIRD PRIZE.—John Lundie, Arbroath, 71 per cent.

FIRST CLASS CERTIFICATES.—Frank W. Dick, Glasgow, 70 per cent. ; George Deuchars, Broughty Ferry, 69.

SECOND CLASS CERTIFICATES.—Francis W. Maclean, Edinburgh, 63 per cent. ; Alexander Craig Renton, Berwickshire ; Richard F. Fleming, Dundee.

PROXIME ACCINT.—Robert Hunter, Edinburgh.

MECHANICAL DRAWING.

MEDAL AND PRIZE.—Robert Hunter, Edinburgh.

FIRST CLASS CERTIFICATES.—F. Adolph Salvesen, Polmont ; A. C. Penman, Gatehouse of Fleet.

SECOND CLASS CERTIFICATE.—John W. Brown, Selkirk.

FLEEMING JENKIN, *Professor*.

X.—GEOLOGY AND MINERALOGY.

MEDALISTS.—F. W. A. Reid, Richmond; and Joseph Thomson, Dumfriesshire—equal, 94 per cent.

CERTIFICATES OF MERIT.—3. W. A. Herdman, Edinburgh, 85 per cent.; 4. J. E. Ady, Burmah, 80; 5. Arthur King, Norwich, 79; 6. R. W. Philip, Edinburgh, 77; 7. W. B. Y. Davidson, Edinburgh, 75; 8. Alexander Grant, Strathspey, 65; 9. G. E. Wilson, Birmingham, 63; 10. W. G. S. Paterson, Berwickshire, 53; 11. E. Hanson, Middlesborough, 50.

PRACTICAL CLASS FOR BLOWPIPE WORK.

PRIZEMAN.—Joseph Thomson.

HIGHLY COMMENDED.—W. A. Herdman; W. G. S. Paterson; Arthur King.

ESSAYS ON EXCURSIONS TAKEN BY THE CLASS DURING THE SESSION.

—1. W. A. Herdman; 2. J. E. Ady; 3. F. W. A. Reid; 4. Joseph Thomson; 5. Alexander Grant.

ARCH. GEIKIE, *Professor.*

XI. COMMERCIAL AND POLITICAL ECONOMY AND MERCANTILE LAW.

I. CLASS BRONZE MEDAL.—John D. Sym, Craigmount School.

II. MERCHANT COMPANY'S PRIZE, £10, for Best Series of Ten Essays prescribed during the Session.—1. Eric S. Robertson, Glasgow Academy; and John D. Sym—equal; 3. Thomas Thomson, private, Edinburgh; 4. H. S. Stuart, U.S.; 5. Robert Thorburn, Leith High School; 6. George S. Deas, Edinburgh High School; 7. T. J. Boyd, George Watson's, Edinburgh; 8. Ernest Woodhead, Huddersfield College; 9. John F. Arnot, George Watson's, Edinburgh; 10. Alexander Mackay, Daniel Stewart's, Edinburgh.

FIRST CLASS CERTIFICATES FOR NINE OUT OF THE TEN ESSAYS PRESCRIBED.—1. Joseph Tillie, Daniel Stewart's, Edinburgh; 2. John Low, Newington Academy; 3. William Ritchie, Edinburgh Academy.

SECOND CLASS CERTIFICATES FOR SEVEN OUT OF THE TEN ESSAYS PRESCRIBED.—1. Patrick W. Campbell, Edinburgh Academy; 2. Walter A. Smith, Edinburgh Institution.

III. GEORGE WATSON'S PRIZE, £5, for Best Essay on Special Subject—Critical Analysis of Smith's "Wealth of Nations."—Eric S. Robertson,

IV. JAMES GILLESPIE'S PRIZE, £5, for Best Written Answers to Printed Questions on the Class Work of the Session.—John D. Sym; 2. Thomas Thomson.

FIRST CLASS CERTIFICATES.—1. H. S. Stuart, U.S. ; 2. Earnest Woodhead ; 3. William Ritchie ; 4. Robert Thornburn ; 5. Thomas Brown Greig ; 6. John Low ; 7. Jos. Lillie ; 8. James P. Duncan, Perth Academy ; 9. Thomas J. Boyd.

SECOND CLASS CERTIFICATES.—1. John F. Arnot ; 2. William Evans ; Edinburgh Institution ; 3. P. M. M'Intyre, Edinburgh High School.
W. B. HODGSON, *Professor*.

XII.—SANSKRIT AND COMPARATIVE PHILOLOGY.

FIRST CLASS CERTIFICATES.—Thomas Cockburn and James Stobo.
J. EGGELING, *Professor*.

XIII. THEORY, HISTORY, AND PRACTICE OF EDUCATION.

CLASS MEDAL.—W. L. Currie ; 2. William Forbes.

FIRST CLASS CERTIFICATES AND PRIZES.—G. M. Lawson, J. H. Loudon, Maxwell Shennan, J. Tod, and J. Massie.
S. S. LAURIE, *Professor*.

XIV. MUSIC.

CERTIFICATES OF MERIT.—Colin James Stalker (Pianoforte and Counterpoint) ; J. C. Ames (Pianoforte and Harmony).
HERBERT S. OAKELEY, Mus. Doc., *Professor*.

FACULTY OF DIVINITY.

(For Bursaries and Scholarships awarded during the Session *see* BURSARIES.)

I. DIVINITY.

STUDENTS OF THE THIRD YEAR.

PRIZEMEN.—1. George Gardiner, M.A. ; 2. William Ross, M.A. ; 3. James W. Blake ; 4. John Williamson ; 5. George W. Crawford, M.A.

HONOURABLE MENTION.—1. Alexander Ritchie ; 2. George Blair.

STUDENTS OF THE SECOND YEAR.

PRIZEMEN.—1. Archibald Turnbull, M.A. ; 2. John Lamb, M.A., East Lothian ; 3. Duncan M. Donald, M.A. ; 4. David Jamie, M.A. ; 5. George W. Mackie, M.A.

SPECIAL PRIZE.—John F. W. Grant, M.A.

HONOURABLE MENTION.—1. Thomas N. Adamson ; 2. James W. Fleming ; 3. Robert Stevenson.

STUDENTS OF THE FIRST YEAR.

PRIZEMEN.—1. William Allardyce, M.A. ; 2. Thomas H. Graham, M.A. ; 3. James Wyse ; 4. James L. Bigger ; 5. Alexander Mackenzie.

HONOURABLE MENTION.—1. Ebenezer Shaw ; 2. Peter Dewar.
R. FLINT, D.D., *Professor*.

II.—CHURCH HISTORY.

SENIOR DIVISION.

PRIZEMEN.—1. George Gardiner, M.A., Perthshire; 2. William Ross, M.A., Wigtonshire; 3. Alexander Ritchie, Perthshire.

JUNIOR DIVISION.

PRIZEMEN.—1. Ebenezer Shaw, M.A., Wigtonshire; 2. John Lamb, M.A., East Lothian; 3. Thomas Graham, M.A., Lochmaben; 4. J. W. Fleming, M.A., Banffshire; 5. David Jamie, M.A., Edinburgh; 6. John Alexander, Edinburgh.

HONOURABLE MENTION.—1. William Allardyce, M.A., Aberdeenshire; 2. James Black, Dublin.

PRIZES FOR ESSAY (OPTIONAL)—JUNIOR DIVISION.—1. John Lamb, M.A., East Lothian; 2. David Jamie, M.A., Edinburgh.

HONOURABLE MENTION.—1. William Allardyce, M.A., Aberdeenshire; 2. Charles Stephen, M.A., Aberdeenshire.

M. C. TAYLOR, D.D., *Professor.*

III.—BIBLICAL CRITICISM AND BIBLICAL ANTIQUITIES.

WRITTEN EXAMINATIONS.

PRIZEMEN.—1. James L. Bigger; 2. George Ferries; 3. William Ross, M.A.; 4. Archibald Turnbull; 5. George Blair.

HONOURABLE MENTION.—John Napier, George M. Mackie, James B. S. Watson, D. M'Allister Donald, William Rainie.

VOLUNTARY PAPERS.—James L. Bigger.

HONOURABLE MENTION.—John Williamson and James B. S. Watson.

NEW TESTAMENT SYNONYMS.—1. and 2. James L. Bigger, and Archibald Turnbull—equal; 3. and 4. George Blair, and Robert Stevenson—equal. A. H. CHARTERIS, D.D., *Professor.*

IV.—HEBREW.

SENIOR CLASS.

1. and 2. James L. Bigger, Londonderry; and John Lamb—equal
3. George Blair; 4. Mercer Hall, Selkirkshire.

JUNIOR CLASS.

1. James L. Bigger, Londonderry; 2. William Allardyce, M.A., Aberdeenshire; 3. Thomas S. Goldie, Selkirkshire; 4. Thomas H. Graham.

PROFESSOR'S PRIZE.—James W. Fleming, Archibald Turnbull, and James B. S. Watson—equal. DAVID LISTON, *Professor.*

FACULTY OF LAW.

I.—CIVIL LAW.

Note.—The Prize List of this Class will be printed in Supplement in August next.

WINTER AND SUMMER, 1876-77.

PRIZEMEN.—1. James Forrest, B.A. Oxon.; 2. William G. Belford; 3. David Dundas, B.A. Oxon.; 4. Hay M'Watt, M.A., Edin.

HONOURS OF THE FIRST CLASS.—The Prizemen; 5. Frederick H. Parker; 6. George Lewis Macfarlan, B.A. Oxon.

HONOURS OF THE SECOND CLASS.—James Ferguson, M.A. Edinburgh; William K. Morton; F. A. Brown Douglas, B.A. Cantab.; James G. Millar, M.A. Glasgow, and A. R. C. Pitman—equal; James Duff, M.A. Glasgow; Gerard L. Crole, M.A. Edinburgh, and George Montgomerie Walker—equal; James Walter Whitelaw, David Forsyth, Thomas S. Esson, Adam Tait, James H. Notman, D. D. Buchan, and Andrew G. Robertson—equal.
JAMES MUIRHEAD, *Professor*.

II.—SCOTS LAW.

SUMMER SESSION, 1877.

CRIMINAL LAW.—PRIZEMEN.—J. M'Guffie Fraser, Wigtonshire, and A. Whitson Myles,* Forfarshire—equal.

MERCANTILE LAW.—PRIZEMEN.†—1. A. S. D. Thomson, New York; 2. David J. Keay, Perthshire.

GENERAL HONOUR LIST.

FIRST CLASS HONOURS.—1. J. M'Guffie Fraser, Wigtonshire; 2. A. Whitson Myles,* Forfarshire; 3. George M. Anderson, Forfarshire, and David Inglis, Renfrewshire—equal; 5. William Campbell, Ayrshire.

SECOND CLASS HONOURS.—1. David J. Keay, Perthshire, and J. W. Plenderleith, Berwickshire—equal; 3. Daniel M'Taggart, Argyleshire; 4. A. S. D. Thomson, New York; 5. R. W. Renton, Fife-shire; 6. Walter J. L. Gash, Hertfordshire, and John Henderson, Caithness—equal; 8. Alex. B. Wyllie, Forfarshire; 9. Robt. Will, Forfarshire; 10. Wm Smith, Edinburgh; 11. Wm. Hay, Forfarshire; 12. John Gibson, Ayrshire; 13. Benjamin Husband, Wigtonshire, and Henry J. Leslie, South Carolina, U.S.—equal; 15. Hugh Roger, Ayrshire; 16. Arthur Young, Perthshire; 17. Thomas D. C. Smith, Perthshire; 18. Andrew Tosh; 19. John M. Rusk, Wigtonshire; 20. Donald M'Gregor, Morayshire, Robert Reid, Stirlingshire, and P. Peterson Slater, Shetland—equal. 23. Alex. M'Gregor, Ross-shire.

* Second year Students.

† Not open to prizemen of Winter Session.

WINTER SESSION, 1877-78.

FIRST CLASS HONOURS.—1. John Prosser, Perthshire; 2. William J. Duncan, Ross-shire; 3. John Wilson, Stirlingshire; 4. Hay MacWatt, Clackmannanshire; 5. William Garson, Orkney.

SECOND CLASS HONOURS.—1. James W. Whitelaw, Dumfriesshire; 2. William K. Morton, Edinburgh; 3. George L. Macfarlane, Edinburgh; 4. Lockhart D. Corson, Ayrshire; 5. Hector Sutherland, Caithness; 6. William Clark, Perthshire; 7. and 8. A. S. D. Thomson, Fifeshire; and A. Watson M'Donald, Forfarshire—equal; 9. George L. Aitken, Fife; 10. William Hay, Forfarshire; 11. John Henderson, Caithness; 12. James W. Moir, Clackmannanshire; 13. William Murdoch, Aberdeenshire; 14. Charles Thomson, Clackmannanshire; 15. William Waters, Caithness; 16. J. R. Russell, Fifeshire; 17 and 18. J. Greig Mackenzie, Sutherlandshire; and Alexander Forsyth M'Keand, Wigtonshire—equal; 19 and 20. Thomas Henderson, Forfarshire; and Alexander Sutherland, Caithness—equal; 21 and 22. Alexander J. Brander, Morayshire; and James Duff, Renfrewshire—equal; 23. Peter Crerar, Perthshire; 24, 25, and 26. C. Campbell Calder, Edinburgh; Donald Macleod, Caithness; and John B. Riach, Morayshire—equal; 27. Thomas M'Duff, Edinburgh; 28. George Montgomery Walker, Fife; 29. John MacGregor, Renfrewshire.

NORMAN MACPHERSON, *Professor*.

III.—CONVEYANCING.

FIRST CLASS HONOURS—1. William G. Belford, Forfarshire; 2. *George M. Anderson, Forfarshire; 3. William Forbes, Edinburgh; 4. James W. Blenderleith, Berwickshire; 5. *Alexander Guild, Forfarshire; 6 and 7. William Lyon, Morayshire; and *William A. Thom, Ayrshire—equal; 8. William Campbell, Ayrshire.

SECOND CLASS HONOURS—1. Robert Will, Forfarshire; 2 and 3. John Loudon, Fifeshire; and James W. Whitelaw, Dumfriesshire—equal; 4, 5, and 6. Henry H. Brown, Elgin; David B. Buchan, Edinburgh; and William Gun, Dumfriesshire—equal; 7 and 8. John Craigie, Perthshire; and John Gibson, Ayrshire—equal; 9. George Watt, Banffshire; 10. David J. Keay, Perthshire; 11 and 12. Thomas D. C. Smith, Perthshire; and William A. Watterston, Forfarshire—equal; 13. Lauchlan M'Kinnon, Aberdeenshire; 14. John M'Neil, Stirlingshire; 15. Alexander Yeaman Fodd, Forfarshire; 16. Thomas J. Cochrane, Edinburgh; 17. Thomas F. Laidlaw, Ayrshire; 18, 19, and 20. George L. Aitken, Fifeshire; *Charles R. Laing, Edinburgh; and Alexander B. Wyllie, Forfarshire—equal; 21 and 22. *Colin Campbell Calder, Edinburgh; and Andrew Tosh, Ayrshire—equal; 23. Donald MacGregor, Elgin; 24, 25, and 26. William Innes Addison, Forfarshire;

* Second Year's Students.

Thomas Gillespie, Perthshire ; and James G. Millar, Lanarkshire—equal ; 27 and 28. Arthur Young, Perthshire ; and Adam W. Myles, Forfarshire—equal.

JAMES STUART TYTLER, *Professor.*

IV.—PUBLIC LAW.

PRIZEMEN.—James Forrest, B.A. ; George Law.

FIRST CLASS HONOURS.—G. L. Crole, M.A. ; James G. Millar, M.A. ; A. Whitson Myles ; James H. Jameson, M.A. ; George Watt, M.A.

SECOND CLASS HONOURS.—James Duff, M.A. ; W. R. Turnbull ; Henry Kermack, M.A. ; Alexander Ure, M.A.

JAMES LORIMER, *Professor.*

V.—HISTORY.

SUMMER SESSION, 1877.—WRITTEN EXAMINATIONS.

1. Edward Salvesen, Leith, FIRST PRIZEMAN ; 2. John F. M'Lennan, M.A. Aberdeen, Wick, SECOND PRIZEMAN. MENTIONED WITH HONOUR.—3. Charles Paterson, M.A., Glasgow ; 4. William A. Wilson, Ayrshire ; 5. J. Stewart Yates, Vancouver's Island ; 6. George Law, Forfar ; 7. William Hay, Dundee, and C. E. Little, Limerick—equal.

ESSAYS.

1. George Law, Forfar, PRIZEMAN ; 2. Edward Salvesen, Leith ; 3. David Dundas, B.A. Oxon, Edinburgh ; 4. J. F. M'Lennan, Wick ; 5. James G. Millar, M.A., Glasgow ; 6. W. R. Morton, Edinburgh, and George Burnett, M.A., Glasgow—equal.

ÆNEAS J. G. MACKAY, *Professor.*

IV.—MEDICAL JURISPRUDENCE.

MEDALIST—John Wilson, Falkirk, 86 per cent.

FIRST CLASS CERTIFICATES OF MERIT.—Nelson Briggs Constable, Fifeshire, and A. S. D. Thomson, New York, 82·5 per cent.—equal ; Michael Pithie, Fifeshire, 80·5 ; George Burnet, Glasgow, 79 ; Samuel B. Armour, Renfrewshire, 77.

SECOND CLASS CERTIFICATES OF MERIT.—David J. Mackenzie, Elgin, 71·5 per cent. ; Daniel M'Taggart, Campbeltown, 70·5 ; William Hay, Forfarshire, 67·5 ; Albert Pitot, Mauritius, 66·5 ; Alexander Grant, Elgin, 65·5 ; Thomas Clapperton, Gorebridge, 63 ; William Shirres, Kincardineshire, 62 ; James Pringle Taylor, Lanark, 60·5 ; A. Whitson Myles, Forfar, 54·5.

DOUGLAS MACLAGAN, M.D., *Professor.*

FACULTY OF MEDICINE.

I.—BOTANY.

SUMMER SESSION 1877.

I.—For Monthly Competitive Examinations, conducted in the Upper Library Hall of the University, by means of Written Questions and fresh Specimens of Plants without the aid of Books or Notes.

SENIOR DIVISION.

(Number of Competitors, 57. Available Marks, 200.)

The following Competitor having obtained 75 per cent. of the available marks, received a University Medal and a Certificate in the FIRST CLASS OF HONOURS :—1. William Young Orr, Elgin, 75 per cent.

The following Competitors obtained 50 per cent. or more of the available marks, and received each a certificate in the SECOND CLASS OF HONOURS :—2. John Smith, Ayrshire, 70 per cent. ; 3. George M. Johnstone, Leith, 60 ; 4. Alexander B. Dymock, Linlithgow, 55 ; 5. W. A. Herdman, Edinburgh, 52 ; 6. G. B. Ritchie, Edinburgh, 50.

JUNIOR DIVISION.

(Number of Competitors, 191. Available Marks, 200.)

The following Competitors having obtained 75 per cent. or more of the available marks, received each a University Medal and a Certificate in the FIRST CLASS OF HONOURS :—1. Arthur King, Norwich, 90 per cent. ; 2. John B. Berry, Northampton, 80 ; 3. Simon W. Smith, Vermont, U.S., 78 ; 4. William Bouch, Edinburgh, 76 ; 5. M. Barclay Thomson, Melbourne, 76 ; 6. James A. L. Calder, Jamaica, 75.

The following Candidates obtained 50 per cent. or more of the available marks, and received each a Certificate in the SECOND CLASS OF HONOURS :—7. Diarmid Noel Paton, Edinburgh, 71 per cent. ; 8. P. de Villiers Moll, Cape of Good Hope, 70 ; 9. David Bruce, Victoria, 67 ; 10. Robert W. Smith, Milton of Balgonie, 67 ; 11. John M. Macfarlane, Edinburgh, 66 ; 12. David Hepburn, Kinross, 65 ; 13. Philip H. Kidd, Norfolk, 64 ; 14. James H. Thorp, Leeds, 62 ; 15. Sheridan Delepine, Switzerland, 61 ; 16. John Robert Logan, Ross-shire, 61 ; 17. Richard W. Thornton, Forfar, 58 ; 18. W. B. Benjafield, Wiltshire, 57 ; 19. Walter Beevor, Newark, 56 ; 20. Robert Blair, Dalkeith, 55 ; 21. W. C. Greig, Edinburgh, 53 ; 22. Robert H. Munro, Ross-shire, 53 ; 23. R. H. Rozenzweig, Cape of Good Hope, 52 ; 24. Roger Kirkpatrick, Bangalore, 51 ; 25. Robert Bowes, Dundee, 51 ; 26. Clement B. Gunn, Edinburgh, 51 ; 27. William Vassie, Lanark, 50 ; 28. B. J. Baron, Plymouth, 50.

The Prize of Two Guineas, offered by George A. Panton, Esq., Birmingham, for the Student who stood highest in the Competitive Junior Examination was awarded to Arthur King, Norwich.

N.B.—The PANTON PRIZE of two guineas will be again awarded at the end of the Summer Session, 1878.

II.—For a series of Dried Specimens and Dissections illustrating the Forms of Definite Inflorescence :—1. Arthur King, Norwich ; 2. John Ernest Ady, Burmah ; 3. Donald M. Stevenson, Tullibody.

III.—The Prize of Two Guineas, offered by Dr Gilchrist, Dumfries, for the best and approved Report on the Fossil Flora of the District within ten miles of Edinburgh; illustrated by specimens, was awarded to John M. Macfarlane, Edinburgh.

CLASS OF VEGETABLE HISTOLOGY AND PRACTICAL BOTANY.

IV.—For a series of 24 Microscopical Preparations illustrating the Root, Stem, Leaves, and Flowers of the common Dandelion :—1. John M. Macfarlane, Edinburgh ; 2. George Steele Perkins, Devon—*University Medals* ; 3. Joseph J. Whitaker, Liverpool ; 4. G. Armstrong Atkinson, Wylam-on-Tyne ; 5. Mark Anthony Savage, Armagh—*Prizes*.

CERTIFICATES OF MERIT ARRANGED ALPHABETICALLY.—Henry H. Aitchison, Northumberland ; James P. Aitchison, Blackburn ; Arthur C. Doyle, Edinburgh ; William Flett, Banffshire ; Arthur King, Norwich ; H. D. King, Norwich ; John Laing, Edinburgh ; John Macmillan, Forfar.

V.—For Preparations illustrating the parts of the Flower of six Species of Native Plants :—William Young Orr, Elgin.

STATISTICS OF THE BOTANICAL CLASS FOR 1877.

Number of Pupils, 389 ; of these 346 were medical students, 39 general students, and 4 pharmaceutical students. Students of first year, 283 ; advanced students, 106. Pupils of the Class of Vegetable Histology and Practical Botany, 57.

Number of Lectures, 66 ; Demonstrations in the Botanic Garden, 12 ; Histological and Practical Demonstrations, 43 ; Competitive Examinations, 2 ; Excursions, 9.

The following were the Excursions :—1. Roslin and Polton. 2. Aberdour and Burntisland. 3. Longniddry and Prestonpans. 4. Penicuik and Roslin Castle. 5. Dysart and Cameron Bridge. 6. Linlithgow. 7. Currie and Slateford. 8. Lochmaben. 9. Killin, Bridge of Lochay, Ben Lawers, Cham-a-Creagh, Finlarig, &c.

Number of Species and Plants collected during the Excursions :—Phanerogamous Plants, 544 ; Ferns and their Allies, 32 ; other Cryptogams, 100 ; Total, 676.

Number of fresh specimens used to illustrate the Lectures during the Session, 48,820.

Number of miles travelled by railway, steamboat, and walking, 500. The number of students who attended the Excursions was 241; and the number at each Excursion varied from 25 to 128. Total expense of the trips, £2, 12s. 4d.

PRIZES OFFERED IN SUMMER SESSION 1878.

I. A Gold Medal for the best and approved Herbarium collected from the fields and woods within Twenty Miles of Edinburgh, between 15th July 1877 and 15th July 1878, under the following conditions:— The collection to consist of Phanerogamous Plants and Ferns arranged according to the Natural System, and to be accompanied by a numbered list of species arranged according to Balfour and Sadler's *Flora* of Edinburgh (2d edition). The name of each plant, its habitat, and the date and day of collection, are to be stated on the paper on which the specimen is preserved—the paper being similar to that used in the Herbarium at the Royal Botanic Garden. The Prize Herbarium must contain not less than 600 correctly named species. In judging of the respective merits of the collections, attention will be paid not merely to the number of the species, but also to the condition of the specimens, and the mode in which the plants are preserved and dried.

The Herbarium must be sent to the Royal Botanic Garden on or before 15th July 1878, with a motto and sealed note containing the name of the competitor, and a declaration to the effect that the plants in the collection have been gathered by himself in the localities mentioned, within the stated period (1877-78), and named by himself.

II. Prizes will be given for large Models (similar to those in the Museum at the Botanic Garden), illustrating the Structure of Orders, Genera, Species, or of Parts of Plants. The competitor's attention may be directed to Cyperaceæ, Mosses and other Cryptogamic Plants, the arrangement of Leaves and of the Parts of the Flower, the Structure of the Pistil, Ovaries, Ovules, Fruits, and Seeds, and the kinds of Placentation.

Facilities will be given for getting specimens from the Botanic Garden for making Typical Models. To be sent to the Garden on or before 15th July 1878.

III. A Prize will be given for the best and approved Series of Specimens and Dissections illustrating any twelve Natural Orders. To be sent to the Garden on or before 15th July 1878.

IV. A Prize will be given for the best and approved Essay on any subject in Vegetable Physiology. The author is expected to make original observations and experiments. These may be conducted in the Botanic Garden. To be given in on 15th July 1878.

V. A Prize of Two Guineas is offered by Dr Gilchrist, Dumfries, for the best and approved Essay on the Relation between Plants and Soils,

as influencing their Geographical Distribution in Britain. To be given in on 15th July 1878.

VI. Prizes will be given, both in the Senior and Junior Divisions of the Class, to those who acquit themselves in a satisfactory manner at the Competitive Examinations. Those who gain 75 per cent. or more of the available marks will receive a Certificate in the First Class of Honours. Those who gain 50 per cent. or more, but less than 75 per cent. of the available marks, will receive a Certificate in the Second Class of Honours. These marks, when 80 per cent. or more, are also taken into account in the Examinations for Degrees in Science (see University Calendar, 1877-78, p. 129).

A limited number of University Bronze Medals will be given to those who obtain the highest number of marks in the Competitions.

VII. A Prize will be given to the Junior Division of the Class for Dissections executed during the course. The nature of the Dissections to be intimated in May or June 1878.

VIII. Prizes will be given in the Class of Vegetable Histology and Practical Botany for Microscopical Preparations and Dissections of Plants. The subjects for competition will be announced when the Class meets.

IX. A Prize of Ten Guineas is offered by the Botanical Society for the best and approved Essay on the Reproduction of Lycopodiaceæ, to be competed for by Students who have attended the Botanical Class during at least one of the three years preceding the award, and have gained honours in the Class Examinations.

X. A similar Prize of Ten Guineas is offered, through the Council of the Botanical Society, by Charles Jenner, Esq., for the best and approved Essay on the Structure and Reproduction of the Frondose and Foliaceous Jungermanniaceæ.

J. H. BALFOUR, M.D., *Professor*.

II.—NATURAL HISTORY,

SUMMER SESSION, 1877.—SENIOR DIVISION.

FIRST CLASS HONOURS.—1. T. P. Anderson Stuart, Dumfries, 88 per cent. ; 2. John Ernest Adv. Moulmein, Burmah, 85 ; 3. William Thomson, Perthshire, 79 (*University Medals*) ; 4. W. Y. Orr, Elgin, 76 ; 5. Thomas Proudfoot, Edinburgh, 75.

SECOND CLASS HONOURS.—6. James P. Aitchison, Blackburn, 69 per cent. ; 7. A. F. Mackenzie, Inverness-shire, 66 ; 8. James Hewetson, Cumberland, 65 ; 9. W. A. Herdman, Edinburgh, 64 ; 10. J. Pemberton Campbell, Edinburgh, and Charles E. Nichol, New-

castle, 62—equal ; 12. Thos. Brown, Dunblane, and M. Tolme Mackenzie, Dunvegan, 60—equal ; 14. William A. Caven, Kirkcudbrightshire, 59 ; 15. David Lennox, Dumfries, 58 ; 16. George B. Ritchie, Edinburgh, 56 ; 17. Alexander Thomson, Constantinople, 54 ; 18. William Wilson, Kendal ; John F. Macrae, Ross-shire ; and John Macdonald Brown, Dunfermline, 52—equal ; 21. E. Samuel Scott, Yorkshire, 51.

JUNIOR DIVISION.

FIRST CLASS HONOURS.—1. John W. Anderson, M.A., Airdrie, and John Macmillan, M.A., Forfarshire, 81 per cent.—equal ; 3. H. D. King, Norwich, 80 ; 4. Simon W. Smith, Vermont, 78 ; 5. David Bruce, Sandhurst, Victoria, 77 ; 6. William Bouch, Edinburgh, 76 (*University Medals*) ; 7. Diarmid Noel Paton, Edinburgh, 75 ; 8. W. J. Stirling, 75.

SECOND CLASS HONOURS.—9. Richard W. Thornton, Forfar ; James William Fraser, Hull ; and Alexander Grant, Strathspey, 68—equal ; 10. William B. Y. Davidson, Edinburgh, 63 ; 11. James H. Thorp, Leeds, 62 ; 12. Barclay J. Baron, Devonport, 61 ; 13. Ernest Maddox, Shipton, and Bannatyne Macleod, Tasmania, 60—equal ; 14. Clement Gunn, Edinburgh ; M. Barclay Thomson, Melbourne ; and R. T. Lorraine, Dumfries, 59—equal ; 15. George A. Atkinson, Wylam-on-Tyne, 58 ; 16. A. D. Macdonald, Perthshire, 56 ; 17. James S. Craigie, Edinburgh, 53 ; 18. Samuel Brown, Sydney, 51.

PRACTICAL ZOOLOGY CLASS.

FIRST CLASS HONOURS AND CERTIFICATES.—1. George Leslie, Aberdeenshire, 85 per cent., *University Medal* ; 2. John Ernest Ady, Burmah, 76.

SECOND CLASS CERTIFICATES.—3. Diarmid Noel Paton, Edinburgh, 69 ; 4. W. A. Herdman, Edinburgh, 58.

Special Prize in Comparative Anatomy, for Dissections, Preparations, Drawings, and Descriptive Text.—1. George Leslie, Aberdeenshire (*Gold Medal*) ; 2. John Ernest Ady, British Burmah (*Silver Medal*).

The Professor announced a special prize (*a Gold Medal*), open to all Students of the General and Practical Classes of the years 1877 and 1878, for the Best Essay, illustrated by preparations and drawings on the Structure of the Teleostean Fishes. The Essay to be given in, with the name of the competitor, in a closed envelope, with a motto, on or before the 19th of July 1878.

WINTER SESSION, 1877-78.

FIRST CLASS HONOURS.—James Macdonald, M.A., Edinburgh, 92 per cent., *Medal* ; Joseph Thomson, Thornhill (90) *Medal* ; Charles Low, Victoria, 82 ; D'Arcy W. Thompson, Edinburgh, 79.

SECOND CLASS HONOURS.—D. Marinus Jones, Bonn, 74; Primrose M'Connell, Ochiltree, 53; G. S. Pullon, Barnsley, 50.

WYVILLE T. C. THOMSON, *Professor*.

III.—CHEMISTRY.

WINTER SESSION, 1877-78.

FIRST CLASS HONOURS.—*John Waugh, M.A., Dumfriesshire (93 per cent.) (*The Robert Wilson Memorial Prize*); *Arthur Shearer, London 88; *J. A. W. Hunter, Edinburgh, 83; *S. W. Smith, Vermont, U.S., 81; *J. M'Faydean, Wigtonshire, 75.

SECOND CLASS HONOURS.—*E. E. Maddox, Shipton, 73 per cent.; *George E. Wilson, Birmingham, 70; J. G. F. Lowson, Dundee; and George James Rankine, Portobello—equal, 67; *W. L. Goodwin, New Brunswick; and *G. Renwick, Sydney, N.S.W.—equal, 64; *R. Bowes, Dundee, 60; *G. C. Dickson, Carnoustie; and *James S. Watson, Aberdeen—equal, 59; *T. S. Shaw, Skaithmuir, 57; *John Bowie, Edinburgh; and *T. Ridgley, Huntingdon—equal, 56; *G. Rohan, Mauritius, 53; *R. H. Munro, Fortrose, 52; *H. K. Bean, Yorkshire, 50. John Treharne, M.B. (non-competitor), 80.

JUNIOR CLASS EXAMINATION.

FIRST CLASS HONOURS.—James A. W. Hunter, Edinburgh; Simon W. Smith, Vermont, U.S.; and John Waugh, M.A., Dumfriesshire—equal, 94; James M'Laren, Perthshire, 89; William Lawton Goodwin, New Brunswick; and Walter Oliphant Walker, West Calder—equal, 88; Arthur Shearer, London, 86; George Cecil Dickson, Carnoustie, 85 (*Medalists*); W. F. Gourlay, Dundee; Earnest E. Maddox, Shipton; William Milne, Inverurie; and Thomas S. Shaw, Skaithmuir—equal, 84; Ogilvie Grant, Inverness; and D. Noel Paton, Edinburgh—equal, 83; John Bowie, Edinburgh; R. H. Munro, Fortrose; and Alexander M. Stalker, M.A., Leven, Fife—equal, 82; Peter Standen, Derby, 81; George Proudfoot, Glencairn; Georges V. Rohan, Mauritius; James Smith Watson, Aberdeen; and George Edward Wilson, Birmingham—equal, 80; Henry C. Robson, Smallholmburn, 79; Charles E. Allan, Dumfries; Barclay J. Baron, Plymouth; James B. Hogg, Edinburgh; William Morrison, Cowrie; D. Leone Ritchie, Edinburgh; and George Wilson, Dumfriesshire—equal, 78; Charles Brown, Dunblane; David Hepburn, Milnathort; John M'Fadyean, Wigtonshire; and Thomas Ridgley, Huntingdon—equal, 77; Robert Bowes, Dundee; John Horatio Drake, Bucks; William Melvin, Kincardineshire; and George James Renwick, Sydney, Australia—equal, 76; Francis William Grant, Perthshire; and R. H. Rozenzweig, Cape of Good Hope—equal, 75.

* Junior Students.

SECOND CLASS HONOURS.—Thomas Low, Edinburgh; James G. F. Lowson (Senior Student), Dundee; Norman Maclean, Portsmouth; Alexander C. Renton, Berwickshire; and Edward Young, Perth—equal, 74; George Keppy Paterson, Edinburgh; and David Welsh, Dumfries—equal, 73; Sheridan A. Delépine, Switzerland; Robert Robson Dinwiddie, Dumfriesshire; William B. Macdonald, Edinburgh; and Samuel Walker, West Calder—equal, 72; Henry Moubray Cadell, Linlithgowshire; Robert T. Lorraine, Dumfries; Samuel Macken, Bradford; P. de Villiers Moll, Cape of Good Hope; and D'Arcy W. Thomson, Edinburgh—equal, 71; J. Carlowitz Aues, Bristol; H. K. Bean, Yorkshire, Robert Blair, Dalkeith; and John Bowes, Dundee—equal, 70; William Doig, Edinburgh; Charles E. Paterson, Berwickshire; and Allen Thomson Sloan, Edinburgh—equal, 69; Thomas Borthwick, Peebles; W. W. Baldock Fry, Sussex; Donald M. Stevenson, Clackmannanshire; William C. S. Hunter, Aberdeen; and L. Ralston Huxtable, Tasmania—equal, 68; Francis Charlesworth, London, 67; John Craig, Kirkcudbright; and Andrew Thomson, Aberdeenshire—equal, 66; Alexander Van der Byl, Cape of Good Hope, 65; John Robert Dobie, Thornhill; Robert Fearn, Musselburgh; Robert Hardie, Edinburgh; and James H. Thorp (Senior Student), Leeds—equal, 64; Laurence Ithel Ruck, Merionethshire; E. Samuell Scott, Yorkshire; and John H. Williams, Rhyl—equal, 63; William Thyne, Edinburgh, 62; George W. Galletly, Edinburgh; and William C. Scholtz, Cape of Good Hope—equal, 60; H. L. Grant, Elgin; John Lethem, Edinburgh; and William Masters M'Pherson, Calcutta—equal, 59; John G. Wallace-James, India; and David Treharne, South Wales—equal, 58; Sydney W. Haynes, Evesham; Edward O. Macniven, Luss; Alexander Fraser Russell, Argyllshire—equal, 57; Francis W. Innes, Rangoon, 56; Thomas R. Bailey, Durham; Arthur Malcolm Moore, Sydney, N.S.W.; and Alfred Hynam Sevier, Russia—equal, 55; Leonard T. F. Archer, Barbadoes; John L. Gibson, Ipswich (Queensland); and James Kinnear, Edinburgh—equal, 54; Charles Kennedy, Edinburgh; and John R. Lee, Edinburgh—equal, 53; Frank Craig, Wick; Thomas Rowland, Llanelly; James Ryan, Ceylon; and Robert A. Williams, Carnarvon—equal, 52; W. T. Boddy, Yorkshire; A. Doulton; George Duncan, Garmouth; and Colin C. M. Gibson, Dundee—equal, 51; T. Patrick Myles, Forfar; and John Robert Stevenson Robertson, Berwick-on-Tweed—equal, 50.

PRACTICAL CHEMISTRY.

SUMMER SESSION, 1877.

FIRST CLASS HONOURS.—Above 88 per cent.—S. F. Brown, H. N. Everard, J. A. L. Calder, and E. S. Scott (*Medalists*); Thos. Aitchison, W. T. Barrie, W. C. Beevor, J. Macdonald Brown,

Alex. Cameron, R. P. Cox, R. A. P. Forrester, J. W. Fraser, J. R. Logan, H. Lorans, W. A. Macleod, Jas. Osborne, M. A. Savage, W. J. Sinclair, T. P. A. Stuart, W. Thomson.

SECOND CLASS HONOURS.—Above 75 per cent.—H. H. Aitchison, J. W. Anderson, W. M. Anderson, G. A. Atkinson, J. B. Berry, W. L. P. Bevan, W. J. Birrell, W. A. Caven, P. Davidson, J. W. Duckett, A. B. Dymock, W. Flett, J. H. Fraser, W. R. J. Garson, C. J. Gibson, H. Goodwyn, Jas. Hewetson, R. T. Hill, J. H. Holt, Jas. Hunter, W. A. Hyslop, A. S. T. Johnstone, James Johnston, H. D. King, R. W. Lethbridge, James Limont, A. D. Macdonald, E. Æ. Macintosh, A. L. Macleish, J. F. Macrae, B. O. W. Norfor, W. Y. Orr, G. S. Perkins, R. B. Proudfoot, G. S. Pullon, G. J. Ranken, W. H. J. Sellers, R. W. Smith, J. G. Soutar, A. Thomson, O. Whittle.

WINTER SESSION, 1877-78.

FIRST CLASS HONOURS.—1. M. B. Thomson, Melbourne—(*Medal*); 2. H. K. Bean, Yorkshire; 3. W. C. Anderson, Hawick.

SECOND CLASS HONOURS.—4. W. Ferguson, Caithness; 5. G. J. Renwick, Sydney; 6. A. Thomson, Aberdeenshire; 7. J. Ewart, Dumfriesshire; 8. A. C. Renton, Berwickshire; 9. D. L. Ritchie, Edinburgh; 10. H. Rendall, Newfoundland; 11. H. M. Cadell, Linlithgowshire; 12. W. H. Davies, Wrexham; 13. R. K. Peacock, Melbourne.

ALEX. CRUM BROWN, M.D., *Professor*.

IV.—ANATOMY.

SENIOR DIVISION.

FIRST CLASS HONOURS.—Alexander Bruce, M.A., Aberdeenshire; and Nathaniel E. Roberts, Carnarvonshire—equal, 88 per cent.; and E. F. Martin, Weston Super Mare, 86—(*Medals*); James Thomson, Dumfries, 82; R. G. L. Bell, Jamaica; William Fligg, Scarborough; William Rowlands, Carnarvonshire; William Turner, M.A., Keith; and Thomas F. Watts, Barbadoes—equal, 80; A. H. Barbour, M.A., Edinburgh; Thomas A. Machattie, New South Wales; Herbert C. Moore, Leicester; George B. Silke, Cape of Good Hope; and Valentine W. F. Werdmüller, Cape of Good Hope—equal, 78; E. S. Jackson, Lancaster; G. W. C. Luckhoff, Cape of Good Hope; Herbert Male, Birmingham; and W. D. Symington, Aylesbury—equal, 76; Patrick W. Maxwell, Glasgow; and Thomas Te Water, Cape of Good Hope—equal, 75.

SECOND CLASS HONOURS.—William Murray, Dumfries, 72 per cent.; Thomas Nelson, Perthshire, 66; F. J. Allan, Dumfries; and William Hosegood, Somerset—equal, 62; G. W. Dickson, Linlithgowshire; and Russell O'Brien, India—equal, 60; J. C. Voigt, Cape of Good Hope, 58; A. E. Pechell, Shrewsbury, 54.

The following Gentlemen, who were unavoidably absent from one of

the four examinations, obtained marks :—G. S. Brock, Caithness, 77 per cent.; R. W. Mead, Whitby; and Arthur M. Oran, New South Wales—equal, 76.

JUNIOR DIVISION.

FIRST CLASS HONOURS.—William A. Herdman, Edinburgh; M. Barclay Thomson, Victoria—equal, 91 per cent.; George Proudfoot, Glencairn, 88; Daniel Stalker, M.A., Leven; and James Smith Watson, Aberdeen—equal, 87 (*Medalists*); Petrus de Villiers Moll, Cape of Good Hope, 86; Charles Kennedy, Edinburgh; Ernest E. Maddox, Oxfordshire; and David Welsh, Dumfries—equal, 85; R. H. Rozenzweig, Cape of Good Hope, 84; D. Leone Ritchie, Edinburgh, 83; R. T. Lorraine, Dumfries; G. H. Mackay, Morayshire; and A. M. Stalker, M.A., Leven—equal, 82; Simon W. Smith, Vermont, U.S., 81; William S. Low, Burntisland; and R. H. Munro, Fortrose—equal, 80; Robert Bowes, Dundee; and David Bruce, Sandhurst—equal, 79; Donald M. Stevenson, Clackmannanshire, 78; Peter Baillie, Orkney; James B. Hogg, Edinburgh; and Thomas P. Myles, Forfar—equal, 77; Sheridan Delépine, B.Sc., Switzerland, 76; H. H. Ashdown, Northampton; John Bowes, Dundee; Camille Delépine, B.Sc., Paris; R. R. Dinwiddie, Dumfries; A. Van der Byl, Cape of Good Hope; and George Wilson, Dumfries—equal, 75.

SECOND CLASS HONOURS.—J. L. Gibson, Queensland; F. W. Grant, Perthshire; and James Ronaldson, Linlithgowshire—equal, 73 per cent.; David Hepburn, Milnathort; John M'Fadyean, Wigtownshire; Norman Maclean, Portsmouth; and G. V. Rohan, Mauritius—equal, 72; John R. Dobie, Thornhill; and John Macpherson, Inverness—equal, 71; Alfred H. Sevier, St Petersburg, 70; B. J. Baron, Plymouth; and Thomas S. Shaw, Berwickshire—equal, 69; Alexander F. Russell, M.A., Argyllshire; and John H. Williams, Flintshire—equal, 68; David R. Dobie, Berwickshire, 67; L. T. F. Archer, Barbadoes; T. R. Bailey, Durham; and George Kerr, Dumbartonshire—equal, 66; G. C. Dickson, Carnoustie; and John Waugh, M.A., Dumfries—equal, 65; A. T. Sloan, Edinburgh; A. de Stafford, Northamptonshire; and Ralph Stockman, Leith—equal, 64; John Bowie, Edinburgh; and William Morrison, Perthshire—equal, 63; William Harding, Rothbury; and John R. S. Robertson, Berwick-on-Tweed—equal, 62; James D. Dunlop, Edinburgh; W. W. B. Fry, Sussex; and Roger Kirkpatrick, Bangalore—equal, 61; James Orr, County Down; and G. K. Paterson, Edinburgh—equal, 60; George Duncan, Morayshire; A. M. Moore, Sidney; and W. C. Scholtz, Cape of Good Hope—equal, 59; Robert Blair, Dalkeith, 58; F. Charlesworth, London, 55; Michael Clark, Northumberland, 54; Wm. Thyne, Edinburgh, 53; J. H. Balfour, Portobello; W. B. Bannerman, Edinburgh; Thomas Borthwick, Peebles; R. S.

Sibbit, Northumberland; and William Taylor, Ayr—equal, 52; Robert Laurie, Derby; and Alexander Stooks, Liverpool—equal, 51; W. B. Benjafield, Wiltshire; G. M. Johnstone, Edinburgh; E. S. Palmer, Hampshire—equal, 50.

The following Gentlemen acted as Prosectors to the Class:—Johannes M. Beck, Cape of Good Hope; Alexander Bruce, M.A., Aberdeenshire; F. D. Fraser, M.A., Edinburgh; C. G. R. Storie, M.A., Aberdeen; T. P. Anderson Stuart, Dumfries; and William Turner, M.A., Keith.

W. TURNER, M.B., *Professor*.

V. SURGERY.

SENIOR DIVISION.

UNIVERSITY MEDAL AND FIRST PRIZE.—Basil G. Morison, India, 96 per cent. UNIVERSITY MEDAL AND SECOND PRIZE.—Charles Begg, Edinburgh, 93. THIRD PRIZE AND HONOURABLE CERTIFICATE.—Henry J. Clarke, Doncaster, 82.

FIRST CLASS HONOURS.—Robert Robertson, Dumfries, 80; William Wilson, Kirkcudbrightshire, 77; Alexander Simpson, M.A., Auchterarder, 77; James Crombie, Melrose, 77; Charles R. Williams, Denbighshire, 77; Richard James, India, 77.

SECOND CLASS HONOURS.—William Tait, Kirknewton, England, 74; Henry G. L. Wortabet, Syria, 70; German Sims Woodhead, Huddersfield, 66; James Campbell, Lasswade, 65; Edwin M. Ford, Nottingham, 63; M. C. N. Sakir, 62; William Allan, Dunse, 62; John Wilson, Glasgow, 59.

JUNIOR DIVISION.

UNIVERSITY MEDALS AND FIRST PRIZES.—J. Macdonald Brown, Dunfermline, and Arthur Thomson, Edinburgh—equal, 89 per cent.; 3. P. Davidson, Edinburgh, 87.5; 4. Geo. M. Johnston, Leith, 83.

FIRST CLASS HONOURS.—Jas. W. Fraser, Hull, 82; Archd. D. Macdonald, Perthshire, 80; Alexander Thomson, Constantinople, 77; John Robert Logan, Ross-shire, 76; David Lennox, Dumfries, 75.5.

SECOND CLASS HONOURS.—Alex. S. Rose, Aberdeenshire, 71.5; Chas. Low, Melbourne, Vic., 70; C. W. Maxwell Muller, Edinburgh; and Archibald C. Guthrie, Ayr—equal, 65.5; "*Ars Longa*," &c., 63.5; Walter B. Garvin, Colombo, Ceylon, 62.5; "*Fortissima*," &c., 61; Thomas Proudfoot, Edinburgh, 60; T. D. Greenlees, Ayrshire, 58; Colin M'Callum, Skye, 55; P. J. Resief, Cape of Good Hope, 52.5; Hugh Sutherland, Brora, 50.

J. SPENCE, *Professor*.

VI. MATERIA MEDICA.

FIRST CLASS HONOURS.—Thomas Harkness, Derby, 87.3 per cent.; Alexander Bruce, M.A., Aberdeenshire, 86; Duncan Alistair MacGregor, Inverness, 85; William Rowlands, Carnarvonshire,

84, *Medalists*; James Thomson, Dumfries, 80; W. Lloyd Owen Williams, Carnarvon, 78'3; Thomas Clarke, Dumfries, 77'3; Edward S. Jackson, Lancashire, 76'3; Judson Coy, New Brunswick, 76; D. F. M'Donald, Edinburgh, and E. P. Youngerman, Calcutta—equal, 75'6; N. E. Roberts, Carnarvonshire, 75'3; J. H. M. Beck, Cape of Good Hope, and A. J. Morris, Bolton—equal, 75.

SECOND CLASS HONOURS.—George B. Silke, Cape of Good Hope, 72'3; Frank C. Larkin, Newcastle-on-Tyne, 72; William Turner, Keith, 71'3; James P. Aitchison, Blackburn, 71; Perkins William Case, Trowbridge, Wiltshire, 70'6; James Oliver, Ayr, and Thomas Te Water, Cape of Good Hope—equal, 68'6; David R. Hamilton, Dumfriesshire, and Patrick N. Maxwell, Glasgow—equal, 67'6; William Wilson, Kendal, 67; Herbert C. Male, Birmingham, 66'6; David Fairweather, Forfarshire, 62'6; William Knott, Wolverhampton, 62'3; Henry W. Mason, Yorkshire, 61'3; James Murray, Edinburgh, and Robert A. Murray, New Galloway—equal, 60'3; H. Bean, Yorkshire, 58'6; Mayer J. Bernstein, North Shields, and William Hosegood, Somerset—equal, 58'3; William Sellers, Radcliffe, and Charles Templeman, Blairgowrie—equal, 58; Thomas Jackson, Penrith, 55'3; David W. Aitken, Portobello, 53; John T. Leask, Orkney, and Thomas Nelson, Perth—equal, 52'6; Alfred E. Muncaster, Manchester, 51'6; William Duncan, Aberdeenshire, 50'6; Edward Robert Harriott, Jamaica, 50'3.

THOMAS R. FRASER, M.D., *Professor*.

VII.—MEDICAL JURISPRUDENCE.

SUMMER SESSION, 1877.

MEDALISTS.—1. Thomas Gordon, M.A., Montrose, 88 per cent.; 2. Alexander Wattie, M.A., Aberdeenshire, 86'5; 3. William Richardson, Darlington, 85.

FIRST CLASS CERTIFICATES OF MERIT.—B. G. Morison, India, 83'5 per cent.; Andrew Mungle, Edinburgh, 78; William M. Barclay, Sutherlandshire, 77'5; Bernard G. Guillemard, Bournemouth, and Henry Handford, Atherstone, 76'5—equal; James Hunter, Dumfriesshire, and Alexander Bruce Low, Edinburgh, 75—equal.

SECOND CLASS CERTIFICATES OF MERIT.—Alfred J. Harvey, Newfoundland, 73'5 per cent.; William Lauder, Port-Glasgow, 72'5; John Clouston, Stromness, and William Wilson, Kirkcudbrightshire, 70—equal; John Wilson, Glasgow, 69'5; Gavin Stiell, Fife, 69; A. Campbell Clark, Argyllshire, 66'5; Robert J. Blanchard, Nova Scotia, 65'5; Horace Flint, Canterbury, 63; David G. Thomson, Edinburgh, 61'5; Henry G. L. Wortabet, Syria, 61; Robert Crerar, Perthshire, 60'5; Daniel Ritchie, Peeblesshire,

56.5; Thomas Gray, Dumfries, John N. Joseph, Liverpool, and Henry W. King, Bury St Edmunds, 50—equal.

DOUGLAS MACLAGAN, M.D., *Professor*.

VIII. INSTITUTES OF MEDICINE.

WINTER SESSION, 1877-78.

SENIOR DIVISION.

MEDALIST—W. L. O. Williams, Carnarvonshire, 94 per cent.

FIRST CLASS CERTIFICATE—George B. Silke, Mauritius, 88 per cent.

SECOND CLASS CERTIFICATES—Thomas F. Watts, Barbadoes, 70 per cent; Howard Bendall, London, 69; Robert A. Murray, New Galloway, 67; David Lindsay, Lanarkshire, 62.

JUNIOR DIVISION.

MEDALISTS—John H. Fraser, Inverness, 91 per cent; William V. Orr, Elgin, 88; John R. Logan, Ross-shire, 87.

FIRST CLASS CERTIFICATES—W. J. Sinclair, Orkney, 85 per cent.; James A. L. Calder, Jamaica, 84; Charles Stewart, Edinburgh, 82; Thomas Brown, Perthshire, 81; C. W. M. Müller, Edinburgh, 77; James Hewetson, Cumberland, and Alexander M'Cormick, Argyllshire—equal, 76; William Sellers, Radcliffe, 75.

SECOND CLASS CERTIFICATES.—Alexander Thomson, Constantinople, 74 per cent.; Thomas Proudfoot, Edinburgh, 73; William T. Barrie, Liddesdale, 72; William Murray, Dumfries, 71; Ernest Mackintosh, Elgin, 70; David R. Hamilton, Dumfriesshire, 66; Charles Low, Melbourne, and Hugh Sutherland, Brora—equal, 62; Thomas D. Greenlees, Kilmarnock, 60; James Ryan, Ceylon, 59; R. M'Naught, Castle-Douglas, 53; William Bain, Caithness, 50.

PRACTICAL PHYSIOLOGY.

SUMMER SESSION, 1877.

MEDALIST. James Mackenzie, Scone, 84 per cent.

FIRST CLASS CERTIFICATES.—F. C. Larkin, Newcastle-on-Tyne, 79 per cent.; J. M. Hobson, China, 77; James Thomson, Dumfries; 76; T. P. A. Stuart, Dumfries, 75; William Duncan, Aberdeen, 75.

SECOND CLASS CERTIFICATES.—M. J. Bernstein, Liverpool, 60 per cent.; W. D. Symington, Aylesbury, 58; P. W. Maxwell, Glasgow, 55; Judson Coy, New Brunswick, 53; William Turner, Keith, 53; Charles C. Dickson, Galashiels, 50.

WINTER SESSION, 1877-78.

MEDALIST.—James Limont, Alnwick, 90 per cent.

FIRST CLASS CERTIFICATES.—Henry H. Aitchison, Northumberland,

89 per cent.; George G. Whitwell, Shrewsbury, 84; R. Harvey Whitwell, Kamptee, India, 79.

The following Gentlemen acted as Assistant-Demonstrators in the Class of Practical Physiology during the Winter Session 1877-78:—J. M'Kenzie, Scone; J. B. Greathead, Cape of Good Hope; George F. Croke, Gainsborough; and F. J. Baildon, Newcastle, Staffordshire.

WILLIAM RUTHERFORD, M.D., *Professor*.

IX.—PRACTICE OF PHYSIC.

WINTER SESSION, 1877-78.

SENIOR DIVISION.

FIRST CLASS HONOURS AND UNIVERSITY MEDALS.—J. Newton Duncan, Calcutta; and Alexander Simpson, Auchterarder—equal (90 per cent); Frank Dixon, Nottingham (77·5); R. B. Lorraine, Dumfries (77); James M'Lintock, Slamannan; D. Ritchie, Peebleshire; and T. Sanctuary, Dorsetshire—equal 75.

SECOND CLASS HONOURS.—James B. Cunningham, Prestonpans, 71·5 per cent.; Albert Wilson, Newcastle, 69·5; E. W. Hope, Middlesex, 65; James Campbell, Lasswade, 60; Herbert C. Taylor, Reading, 54·5.

JUNIOR DIVISION.

FIRST CLASS HONOURS AND UNIVERSITY MEDALS.—Henry J. Clarke, Doncaster, 88·5 per cent; Henry Handford, Atherstone, 84·5; William Wilson, Kirkcudbright; and William A. M'Naughton, Perthshire—equal, 83·5; B. G. Morison, India, 82·5; James Mackenzie, Perthshire, 81·5; R. Harvey Whitwell, India, 81; Robert Robertson, Dumfries; D. Urquhart Maclellannan, Inverness; and A. Campbell Clark, Argyllshire—equal, 78·5; A. E. Bridger, Canterbury, 77·5; James L. Waters, Wick, 77.

SECOND CLASS HONOURS.—William Tait, Kirknewton, 74 per cent.; David Callum, Edinburgh; and "Tyro"—equal, 71; Wilfrid Wilson, Penrith, and William Fraser Clow, Skye—equal, 70·5; Louis Pegler, Colchester, 69·5; Theodor Linde, Holland, 69; Pulteney W. Dalzell, Bombay, 68·5; Alexander Bruce Low, Edinburgh; S. Rutherford Macphail, Skye; and Richard B. Mitchell, Orkney—equal, 68; William Allan, Dunse, 66·5; John Anderson, Ireland, 66; D. G. Thomson, Edinburgh, 65·5; Henry G. L. Wortabet, Syria, 63; William Badger, Linlithgow; and John Wilson, Glasgow—equal, 62; Henry W. King, Bury St Edmunds, 60; "Cyanosis," 59·5; G. T. Atkinson, India, 58·5; William Carruthers, Lockerbie, 57; James More Reid, Newton-Stewart, 56; Leslie M. Earle, Essex; and A. M. Megginson, Swainton—equal, 55·5; Richard James, Madras; William Murray, Edinburgh; and Percy H. White, Norwich—equal, 55; Robert

N. Paton, Manchester; and E. Fowler Scougall, Cheltenham—equal, 53·5; Charles H. Gwynn, Essex, 53; E. L. Roussel, Mauritius, 51·5.

MEDICAL PSYCHOLOGY AND MENTAL DISEASES.

SUMMER SESSION, 1877.

FIRST PRIZE.—T. Preston Lewis, 80 per cent.

CERTIFICATES OF MERIT.—T. Burn Murdoch and William Murdoch—equal, 76 per cent.

T. GRAINGER STEWART, M.D., *Professor*.

X.—MIDWIFERY.

OPERATIVE MIDWIFERY AND GYNECOLOGY.

SUMMER SESSION, 1877.

FIRST CLASS HONOURS.—1. Alexander Thom, M.A., Crieff (*Medalist*), 88 per cent.; 2. James Scott, Leith, 85; 3. Edward Hoernle, India, 75.

MIDWIFERY.

WINTER SESSION, 1877-78.

FIRST CLASS HONOURS.—Matthew Hay, Stirlingshire, 96 per cent.; Wilfrid Wilson, Cumberland, 87·6; Henry Handford, Atherstone, 83—*Medalists*; James Hunter, Dumfries, 80·1; Henry J. Clarke, Doncaster, 78·3; W. A. Macnaughton, M.A., Blair-Athole, 76; A. B. Low, Edinburgh, 75·7; William Wilson, Kirkcudbrightshire, 75·6.

SECOND CLASS HONOURS.—John Anderson, Ireland, 69·8; J. N. Duncan, Calcutta, 69·3; W. Johnson Calder, Jamaica, 67·5; Hugh L. Calder, Linlithgowshire, 66·6; S. Rosenberg, Minsk, Russia, 65·8; Charles Begg, Edinburgh, 62·6; William F. Clow, Isle of Skye; and A. C. Clark, Argyllshire—equal, 61·5; David Callum, Edinburgh, 60·8; "Spero," 59·6; G. Sims Woodhead, Huddersfield, 59·1; D. Urquhart Maclellan, Inverness-shire, 57·1; William Tait, Kirknewton, 56·1; H. G. Wortabet, Syria, 55; F. Dixon, Nottingham; and John Wilson, Glasgow—equal, 54; J. M'Kenzie, Scone, 52·6; J. More Reid, Wigtownshire, 52·4; B. Van Someren Taylor, India, 52·1; A. E. Bridger, Canterbury; Pulteney W. Dalzell, Bombay; and T. Linde, Rotterdam—equal, 52; J. Crombie, Melrose, 51·9; Basil G. Morison, India, 51·6; W. G. Murray, Edinburgh, 51·4; A. Megginson, Swainton, England; W. Badger, Cromarty; and Albert Wilson, Newcastle-on-Tyne—equal, 50.

ORAL EXAMINATIONS.—1. William A. Macnaughton, M.A., Blair-Athole; 2. William M. Barclay, Sutherlandshire.

A. R. SIMPSON, M.D., *Professor*.

XI. GENERAL PATHOLOGY.

WINTER SESSION, 1877-78.

MEDALS AND FIRST CLASS CERTIFICATES.—William Rowlands, and W. Harvey Whitwell, 92 per cent. ; W. Lloyd Owen Williams, 90 ; John Clouston, 88.

FIRST CLASS CERTIFICATES.—James Oliver, 86 per cent. ; Alexander Bruce, M.A., 85 ; James Thomson, 84 ; R. P. Matthews, 83 ; W. D. Symington, 82 ; W. E. Roberts, 80 ; Alexander H. Barbour, 77 ; Thomas Harkness, Herbert, C. Male, and G. B. Silke—equal, 75.

SECOND CLASS CERTIFICATES.—William Fligg, and T. P. Anderson Stuart—equal, 74 per cent. ; James P. Aitchison, 73 ; William Hosegood, 70 ; E. S. Jackson, 68 ; R. G. S. Bell, 67 ; Charles Templeman and Arthur J. Morris—equal, 66 ; Judson Coy, 65 ; Arthur Murray Oram, 64 ; R. A. Murray, 63 ; M. Tolme Mackenzie, 62 ; D. Fairweather, George E. Piercz, and William Turner—equal, 60 ; A. A. Pechell, 59 ; David Aitken, and William Wilson—equal, 58 ; F. J. Allan, 55 ; Edward Fuller Martin, 52 ; Charles Stuart, 50.

PRACTICAL PATHOLOGY.

SUMMER SESSION, 1877.

PRIZEMEN.—Robert Robertson, 84 per cent. ; James Leith Waters, 82 —*Medals*.

FIRST CLASS CERTIFICATES.—Charles Begg, 80 per cent. ; E. H. Greves, 78.

Messrs Andrew, W. H. Lindsay, Andrew Mungle, and Adam Jardine, also acted as class assistants.

WINTER SESSION, 1877-78.

William Fligg, 85 per cent. ; Herbert C. Male, 80, *Medalists* ; George Hurst, 76 ; B. Wainwright, 75.

W. R. SANDERS, M.D., *Professor*.

XII. CLINICAL SURGERY.

FIRST CLASS HONOURS.—T. P. Anderson Stuart, Dumfries, 98 ; James Leith Waters, Wick, 97 ; B. G. Morison, India, 93, and John Thomson, Edinburgh, 92, *Medalists* ; Thomas Sanctuary, Dorsetshire, and Judson Coy, New Brunswick—equal, 88 ; David George Thomson, Edinburgh, and Edward J. Parry, Abergale—equal, 87 ; R. P. Simpson, Boston ; D. Fairweather, Forfarshire ; and R. E. Schlesinger, Australia—equal, 86 ; C. R. Williams, Denbighshire ; G. T. A. Atkinson, India ; C. W. Müller, Edinburgh ; and R. P. Matthews, Stranraer—equal, 83 ; H. L.

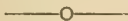
Calder, Edinburgh ; W. D. Symington, Aylesbury ; and David Ritchie, Peeblesshire—equal, 82 ; H. C. Male, Birmingham, 81 ; G. S. Brock, Caithness, and Charles Templeman, Blairgowrie—equal, 80 ; David Callum, Edinburgh, 78 ; E. S. Jackson, Lancashire, and John Clouston, Stromness—equal, 77 ; John Gibson, Orkney ; E. Owen Price, North Wales ; and A. Campbell Clark, Argyllshire—equal, 76.

SECOND CLASS HONOURS.—W. Fligg, Scarborough, 73 per cent. ; David Edwards, Montgomeryshire, 72 ; Robert M'Gregor, Aberfeldy, 71 ; James H. Thorp, Leeds, 69 ; Russel O'Brien, India, and David Lindsay, Lanarkshire—equal, 68 ; F. W. Mason, Yorkshire, and A. Cameron, Argyllshire—equal, 67 ; J. Menzies, Aberfeldy, 65 ; D. Aitken, Portobello, 63 ; W. Turner, Keith, 60 ; John Wilson, Glasgow, 59 ; J. P. Tulloch, Perth, and O. Trafford Owen, Manchester—equal, 57 ; F. J. Allan, Dumfries, 56 ; H. F. Babington, India ; and William Hosegood, Somerset—equal, 54.

T. ANNANDALE, *Professor.*

Examination Questions

FOR DEGREES IN ARTS, SCIENCE, DIVINITY, LAW,
AND MEDICINE, IN 1877-78.



I.—DEGREES IN ARTS.

*EXAMINATION FOR CURRICULUM OF THREE
SESSIONS, AND FOR OPEN BURSARIES.*

LATIN.

Saturday, 27th October 1877.—9-12 o'clock.

1. Translate into Latin prose :—

Cæsar was continually urging the Boii and Aedui to bring up supplies ; but the Aedui showed little activity. The Boii, who were a poor people, soon exhausted their means ; and the conflagration had destroyed the buildings in the country of the Bituriges. Cæsar's army was for several days without corn, and only kept alive by eating the cattle which were driven from remote villages ; yet no complaint escaped them unworthy of the great name of Rome and of their past victories. As Cæsar visited the works, he addressed the several legions, and told them he would give up the siege, if they found the privations too great ; but the men with one voice declared that they would consider it a disgrace to leave the undertaking incomplete, and they would rather endure anything than not avenge their countrymen who had been treacherously murdered at Genabum. They made the same declarations to Cæsar through the Tribunes and Centurions.

2. Translate into English :—

Post hæc tribuni quoque plebei, qui se intercessuros professi erant, cum pauca in eandem sententiam adjecissent ; tum L. Valerius pro rogatione ab se promulgata ita disseruit. 'Si privati tantummodo ad suadendum dissuadendumque id, quod a nobis rogatur, processissent, ego quoque, cum satis dictum pro utraque parte existimarem, tacitus suffragia vestra expectassem. Nunc, cum vir gravissimus consul M. Porcius, non auctoritate solum, quæ tacita satis momenti habuisset, sed oratione etiam longa et accurata insectatus sit rogationem nostram, necessum est paucis respondere. Qui tamen plura verba in castigandis matronis, quam in rogatione nostra dissuadenda, consumsit ; et quidem,

ut in dubio poneret, utrum id, quod reprehenderet, matronæ sua sponte, an nobis auctoribus, fecissent. Rem defendam, non nos, in quos jecit magis hoc consul verbo tenus, quam ut re insimularet. Coetum et seditiones et interdum secessionem muliebrem appellavit, quod matronæ in publico vos rogassent, ut legem, in se latam per bellum temporibus duris, in pace et florente ac beata re publica abrogaretis.

3. To be done by Candidates for Bursaries.

- Th.* Magnas uero agere gratias Thais mihi?
Gn. Ingentis. *Th.* Ain tu, laetast? *Gn.* Non tam ipso quidem Dono, quam abs te datum esse: id uero serio Triumphat. *Pa.* Hoc prouiso ut, ubi tempus siet, Deducam. sed eccum militem. *Th.* Est istuc datam Profecto, ut grata mihi sint quæ facio omnia.
Gn. Aduorti hercle animum. *Th.* Vel rex semper maxumas Mihi agebat quidquid feceram: aliis non item.
Gn. Iabore alieno magno partam gloriam Verbis saepe in se transmouet, qui habet salem, Quod in test. *Th.* Habes. *Gn.* Rex te ergo in oculis—
Th. Scilicet.
Gn. gestare? *Th.* Vero: credere omnem exercitum, Consilia. *Gn.* Mirum. *Th.* Tum sicubi eum satietas Hominum aut negoti siquando odium ceperat, Requiescere ubi uolebat, quasi: nostin? *Gn.* Scio: Quasi ubi illam expueret miseriam ex animo. *Th.* Tenes. Tum me conuiuium solum abducebat sibi. *Gn.* Hui, Regem elegantem narras. *Th.* Immo sic homost: Perpaucorum hominum. *Gn.* Immo nullorum arbitror, Si tecum uiuit. *Th.* Inuidere omnes mihi, Mordere clanculum: ego non flocci pendere: Illi inuidere misere: uerum unus tamen Inpense, elephantis quem Indicis praefererat. Is ubi molestus magis est, 'quæso' inquam 'Strato, Eone es ferrox, quia habes imperium in beluas?'
Gn. Pulcherrume hercle dictum et sapienter. papae, Iugularas hominem. quid ille? *Th.* Mutus ilico.

GREEK.

Saturday, 27th October 1877.

1. Translate:—

Ἐν ταυθοι καθέζονται δικασταὶ ἀνακρίνοντες τῶν ἀφικνουμένων ἕκαστον, τίνα βίον βεβίωκε καὶ τίσιν ἐπιτηδεύμασιν ἐνψκίσθη τῷ σώματι. ψεύσασθαι μὲν οὖν ἀμήχανον. ὅσοις μὲν οὖν ἐν τῷ ζῆν δαίμων ἀγαθὸς ἐπέπνευσεν, εἰς τὸν τῶν εὐσεβῶν χώρον οἰκίζονται, ἐνθα ἄφθονοι μὲν ὤραι παγκάρπου γονῆς βρύνουσι, πηγαὶ δὲ ὑδάτων καθαρῶν ῥέουσι, παντοῖοι δὲ λειμῶνες ἀνθεσι ποικίλοις ἐαριζόμενοι, διατριβαὶ δὲ φιλοσόφων καὶ θέατρα ποιητῶν

καὶ κύκλιοι χοροὶ καὶ μουσικὰ ἀκούσματα, συμπόσιά τε εὐμελῆ καὶ εἰλαπίναι αὐτοχορήγητοι, καὶ ἀκήρατος ἀλυπία καὶ ἡδεῖα διαίτα· οὔτε γὰρ χεῖμα σφοδρὸν οὔτε θάλπος ἐγγίγνεται, ἀλλ' εὐκρατος ἀήρ χεῖται ἀπαλαῖς ἡλίου ἀκτίσιν ἀνακινάμενος. ἐνταῦθα τοῖς μεμνημένοις ἐστὶ τις προεδρία· καὶ τὰς ὁσίους ἀγιστείας κάκεισε συντελοῦσι. πῶς οὖν οὐ σοὶ πρώτῳ μέτεστι τῆς τιμῆς, ὅντι γεννήτη τῶν θεῶν; καὶ τοὺς περὶ Ἡρακλέα τε καὶ Διόνυσον κατιόντας εἰς Ἄϊδου πρότερον λόγος ἐνθάδε μνηθῆναι, καὶ τὸ θάρσος τῆς ἐκεῖσε πορείας παρα τῆς Ἑλενσινίας ἐναύσασθαι.

Third Year's Bursaries.

Turn into Latin and Greek :—

Scaliger and other learned men have written long and subtle dissertations on the comparison of Virgil and Homer; but I do not think much good can result from that sort of work, any more than from the comparison of a lily and a rose, or a rose and a bunch of heather. Each boasts a beauty peculiar to itself, such as makes its own special impression, and challenges its special admiration. It would be wiser to compare Virgil with Tasso and Milton; while for Homer analogies are to be sought in the Niebelungen Lay of the Germans, and the Ossianic poems of the Scottish Highlanders, which, though apparently licked into shape by the modern genius of Macpherson, unquestionably contain much of heroic Celtic tradition of the same nature as the popular ballads from which Homer composed his great Epics.

MATHEMATICS.

October 29th, 1877.

1. Divide £1750 between four persons, so that their shares shall be as the fractions $\frac{2}{7}$, $\frac{3}{14}$, $\frac{1}{4}$, and $\frac{1}{12}$.

2. The dividend on the shares of a bank is announced to be 10 per cent. clear of income-tax. What is the real dividend, income-tax being 4d. in the £?

3. Define parallels.

If a straight line falling upon two other straight lines make the alternate angles equal, those straight lines shall be parallel; and conversely.

4. In every triangle the square described on a side subtending an acute angle is less than the squares of the sides containing that angle, by twice a rectangle.

Complete the enunciation, and prove the proposition.

The three sides of a triangle are 17, 25, and 26; find the segments into which the perpendicular from the smallest angle on the opposite side divides that side.

5. Define similar segments of circles.

In equal circles, equal angles stand upon equal arcs.

6. To describe two circles, one of which shall touch the base and the two sides of a triangle, and the other the base and the sides produced.

Prove that the two points of contact are equidistant from the extremities of the base.

7. If the vertical angle of a triangle be bisected by a straight line which also cuts the base, the distances of the point of section from the extremities of the base shall have the same ratio that the other sides of the triangle have to one another.

The same is true if the exterior angle of the triangle be bisected.

8. To describe a circle which shall touch a given circle, and also touch a given straight line in a given point.

9. Divide $x^3 - (a+p)x^2 + (q+ap)x - aq$ by $x - a$.

Resolve $5(x^2 - y^2) + 3(x+y)^2$ into products.

10. Express as simple fractions in their lowest terms

$$(1.) \frac{a}{a-b} + \frac{b}{b-a}.$$

$$(2.) \frac{a^2 - b^2 - c^2 + 2bc}{a^2 + 2ab + b^2 - c^2}.$$

11. Solve the following equations,—

$$(1.) \frac{1}{5} (3-x) - \frac{1}{7} (3-x) = \frac{1}{10} (2x-7) - \frac{1}{21} (6-5x).$$

$$(2.) \frac{1}{x} + \frac{2}{y} = 5, \quad \frac{3}{x} + \frac{4}{y} = 7.$$

12. A dealer bought eggs at 7 for a shilling, and then as many more at 8 for a shilling. He sold them all at 15 for two shillings, whereby he lost a shilling. How many did he buy?

13. Prove that the product of four consecutive numbers, when increased by 1, is a square number.

14. Obtain the expression for $\sin(A+B)$ in terms of sines and cosines of A and B ; and apply the expression to find $\sin 105^\circ$.

15. D is the centre of the circle inscribed in the triangle ABC , which touches the sides AB , AC , in E and F respectively; AD being produced meets the circumference in G ; prove that G is the centre of the circle escribed to AEF .

16. If a point be taken without the hyperbola (*i.e.* in the space between the two branches), the difference of its distances to the two foci is less than for a point in the curve; if within, greater.

ADDITIONAL QUESTIONS FOR BURSARIES OF THE SECOND YEAR.

1. Resolve into simple factors

$$(1.) (x+y)^2 + 2(x^2 + xy) - 3(x^2 - y^2).$$

$$(2.) 4b^2c^2 - (b^2 + c^2 - a^2)^2.$$

2. Prove the rule for finding the greatest common measure of two numbers.

3. Express as a single fraction in its lowest terms

$$(1.) \frac{1}{3a+3x} + \frac{1}{5x-5a} + \frac{1}{2(x^2-a)^2}.$$

$$(2.) \frac{1}{(a-b)(a-c)(x-a)} + \frac{1}{(b-a)(b-c)(x-b)} + \frac{1}{(c-a)(c-b)(x-c)}.$$

4. Apply induction, or indeterminate co-efficients, to find the sum, and the sum of the squares, of the natural numbers, beginning with 1.

5. The first and fourth terms of an arithmetic series are 3 and 5; find the sum of 15 terms.

6. Express in its simplest form

$$(1.) \sqrt{x+1} + \frac{1}{\sqrt{x+1} + \sqrt{x}} + \sqrt{x+2} - \frac{1}{\sqrt{x+2} + \sqrt{x}}.$$

$$(2.) \sqrt{\left(6 + \frac{5}{3}\sqrt{11}\right)} - \sqrt{\left(6 - \frac{5}{3}\sqrt{11}\right)}.$$

7. The three sides of a triangle are 4, 5, and 6; give the tabular logarithm of the cosine of the largest angle.

Given $\log 2 = .30103$, $\log 3 = .47712$.

8. The line which bisects the exterior angle between two straight lines drawn from a point in an ellipse to the foci is a tangent to the curve.

ADDITIONAL QUESTIONS FOR BURSARIES OF THE THIRD YEAR.

1. Resolve into simple factors

$$(1.) (1+ax)^2 - (a+x)^2.$$

$$(2.) 4(ab+cd)^2 - (a^2+b^2-c^2-d^2)^2.$$

2. If x be positive and n any whole number greater than 1, prove that $x^n + \frac{1}{x^n} > x + \frac{1}{x}$.

3. Find the value, when $x=a$, of

$$(1.) \frac{5x^3 - 4ax^2 - a^3}{4x^2 - 3ax - a^2}$$

$$(2.) \frac{\sqrt{x^2 - a^2} + \sqrt{x^3 - a^3}}{\sqrt{x-a} - \sqrt{x} + \sqrt{a}}$$

4. Write down four terms of the expansion of $(a-x) - \frac{1}{2}$, and of $\log(1-x)$, in powers of x .

Apply the latter expansion to obtain to three places of decimals the Napierian logarithm of 2.

5. Define the root of an equation.

The roots of the equation $x^3 - 5x^2 + x - 2 = 0$ are a , b , and c ; find the equation whose roots are $a+b$, $a+c$, $b+c$; and the equation whose roots are a^2 , b^2 , c^2 .

6. The three sides of a triangle are 4, 5, and 6; give the tabular logarithm of the cosine of the largest angle.

7. If n be a whole number, prove that

$$(\cos \theta + \sqrt{-1} \sin \theta)^n = \cos n\theta + \sqrt{-1} \sin n\theta.$$

8. If a circle be described with the major axis of an ellipse as its diameter, prove that the ordinates to this diameter meet the ellipse and circle at distances from it which are always in the same proportion.

Hence deduce the area of the ellipse.

ENGLISH GRAMMAR AND COMPOSITION.

Monday, October 29th, 1877. 1 to 4 o'clock.

1. Write an Essay on this subject,—*The Postman going his round*. Allow about forty minutes for this Essay; and attend to spelling, expression, pointing, and neatness of form.

2. Tell what you can of the connections of English with other languages, giving examples.

3. How are the letters of the English Alphabet classified, and what are the excesses and deficiencies of that Alphabet?

4. Note the words of Latin or Greek origin in the following passage; and give the precise derivations of as many of them as you can:—

“Of an accountable creature duty is the concern of every moment. It is a universal element, mingling with every action, and qualifying every disposition and pursuit. The moral quality of conduct, as it serves both to ascertain and to form the character, has no period to its consequences, but extends them so into a future world that it is represented in Scripture as a seed no part of which is lost.”

5. Analyse the following sentence, and parse the words in italics,—

“*Whether it be*

Bestial oblivion, or some craven scruple

Of thinking two precisely on the event,—

A thought which, *quartered*, hath but one part *wisdom*,

And ever three parts *coward*,—I do not know

Why yet I live to say ‘*This thing’s* to do.’”

6. Explain as many as you can of the following terms of Grammar, and give examples,—*Accidence, double comparative, Latin affix, augmentative, brackets, cognate words, subordinate conjunction, anapaestic*

metre, common noun, strong preterite, impersonal verb, ordinal number, Alexandrine verse, Rhyme Royal.

7. Give the feminines of *czar, executor, punster*, and the plurals of *topaz, money, series, knight-templar, spoonful, Mr Gladstone*; decline *he* and *whosoever*; compare *late, old, continual*; and conjugate *grind, seethe, set, hang, melt, and bear*.

8. Correct the following sentences of bad English, and point out the nature of the errors—

- (1.) "While running hastily over the pages, a shrivelled rose fell from between two of them. But for this, we would not have known that the book had been read before."
- (2.) "He does not utter an enthusiastic cry, such as Dominic Sampson would have done."
- (3.) "Here is two books! What a difference there is in the styles of each!"
- (4.) "In Swift's *Battle of the Books* the controversy is described that transpired between the advocates of ancient and modern Learning."
- (5.) "A good book is always one of the most delightful objects which meets the eye; and what a boon it is in some Highland village on a wet day, when confined to the house!"
- (6.) "This land will be overwhelmed at last by the pitch of perfection to which it reaches."

9. The following is an extract from a Blank Verse poem, printed as prose. Re-write it in its proper verse form, without changing a word or the order of the words; and scan any two of the lines,—

"The fiend thou servest has not as yet deserted thee: he aids the friends who drudge for him, as the blind man was aided by the guide who lent his shoulder through rough and smooth until he reached the brink of a fell precipice."

EXAMINATION QUESTIONS FOR DEGREE OF M.A. IN 1877-78.

PASS OR ORDINARY EXAMINATION.

A.—DEPARTMENT OF CLASSICAL LITERATURE.

LATIN.

Examiners—Professor SELLAR and Mr WILSON.

Monday, 22^d October 1877.—9 to 11 o'clock.

1. Translate into Latin :—

Thenceforth there was only jealousy on the one side and ambition on the other; Pompeius could not brook an equal nor Caesar a superior. Betwixt them who should decide the right? The gods pronounced in favour of the victor, but Cato had concurred with the vanquished. The contending champions came into the field on no equal terms. The

one was old in years and content with the applause of the forum and the theatre; the other ardent and active, flushed with recent victories, and eager for power; the one had long adopted the garb of peace; the other had not yet sheathed the sword which had subdued the Gauls. Pompeius stood like the veteran oak, conspicuous and alone in some fertile field, crowned with the trophies of many triumphs, majestic in its decay, and revered for its ancient associations. Caesar fell upon it like the lightning of Jupiter, which spares nothing venerable, nothing holy, neither the monarch of the forest nor the temples of its own divinity.

2. Translate Livy, xlv. 39, from "Ipsum L. Paullum" to "gestam redire."

Monday, 22d October 1877.—12 to 2 o'clock.

1. Translate :—

(a) Horace, *Epistles* i. 18, from "Inter cuncta" to "ipse parabo."

(b) Cicero, *Philippics* ii. 27, from "In ejus igitur copias" to "hominibus condonabantur."

(c) Tacitus, *Annals* i. 64, from "Barbari perfringere" to "militi labor."

2. Write short notes on the following :—

(a) Bruto et Cassio caesis nulla jam publica arma.

(b) Vetere atque insita Claudiae familiae superbia.

(c) Lollianas Varianasque clades.

(d) M.' Lepidum dixerat capacem sed aspernantem Gallum Asinium avidum et minorem, L. Arruntium non indignum et, si casus daretur, ausurum.

(e) Numerus etiam consulatum celebrabatur, quo Valerium Corvum et C. Marium simul aequaverat.

3. Comment on the following passage, giving some account of any four of the authors mentioned :—

Naevius in manibus non est et mentibus haeret
 Paene recens? adeo sanctum est vetus omne poema.
 Ambigitur quoties uter utro sit prior, aufert
 Pacuvius docti famam senis, Accius alti,
 Dicitur Afrani toga convenisse Menandro,
 Plautus ad exemplar Siculi properare Epicharmi,
 Vincere Caecilius gravitate, Terentius arte.

4. Answer three of the following :—

(a) The institution of the chief republican magistracies, with dates, and a brief statement of the duties of each office.

(b) The leading events in the struggle between Rome and Carthage.

(c) The evils affecting Rome and Italy in the time of the Gracchi and attempts at reform.

(d) The government and condition of the provinces, (1) under the republic, (2) under the empire.

(e) The tastes and pursuits of Horace illustrated from his works.

Thursday, April 11, 1878—9 to 11 o'clock.

1. Translate into Latin—

This son of Drusus, who had been the popular idol of his day, and who was said to have hankered after the old liberties of the Republic, had won himself the soldiers' hearts by his courtesy, gallantry, and grace, and the familiar name of Germanicus, which they gave him, is the only one by which history has known him since. They were ready to assert their right to be consulted. The power which they defended was in their hands to give at a word from him, and if that word had been spoken, they would certainly have marched in arms to Rome. But he was not fired by such ambitious hopes, nor had he seemingly any sentimental dreams of ancient freedom. He took without delay the oath of obedience to Tiberius, restored discipline after a few anxious days of mutiny, and then tried to distract the thoughts of his soldiers from dangerous memories by a series of campaigns into the heart of Germany.

2. Translate, *Livy*, IX. 30, from "Ejusdem anni rem dictu" to "lux oppressit."

Thursday, 11th April 1878—12 to 2 o'clock.

1. Translate—

(a) Horace—*Epistles* I., 12, 12, from "Miramur, si Democriti" to "Copia cornu."

(b) Cicero—*Philippics* II. 9, from "P. Clodium meo consilio" to "tristem esse oportebat?"

(c) Tacitus—*Annals* I. 69, from "sed femina ingens" to "auctaque promeret."

2. Write explanatory notes on the following ;—*Tabulas peccare vetantes, pontificum libros, Saliare Numæ carmen, Fescennina licentia Garganium nemus, meo sum pauper in aere, Bioneis sermonibus, quaedam mancipat usus.*

3. Give an account of the proper names in passage (a.) above.

4. Mention the principal events in the history of Rome from 44 to 31 B.C.

5. Enumerate, with dates and mention of their works, the literary contemporaries of Cicero.

6. Sketch shortly the life and character of Marius, or of the Emperor Tiberius.

GREEK.

Examiners—Professor BLACKIE and Mr WILSON.

Tuesday, 23d October 1877.—1 to 4 o'clock.

1. Translate into Greek :—

All were silent, and the Persian leader went on : "Since you either know nothing or dare not say what you know, I will tell you myself.

There is an oracle which says that Persians coming to Hellas shall plunder the temple of Delphi, and then be utterly destroyed. But we are not going against this temple, nor shall we attempt to plunder it; so that this cannot be our ruin. All therefore who have any goodwill to the Persians may be glad, for, so far as the oracles are concerned, we shall be the conquerors."

2. Translate:—

(a) Homer, *Odyssey*, II., 281-295, from "τῷ νῦν μνηστήρων" to "εὐρέϊ πόντῳ."

(b) Aeschylus, *Prom. Vinct.* 445-458, from "λέξω δὲ" to "δυσκρίτους δύσεις."

(c) Herodotus, II., 120, from "οὐ μὲν οὐδὲ ἡ βασιληΐη" to "εἴρηται."

(d) Xenophon, *Cyropaedia*, vii., 5, 20, from "Ἄνδρες, εφη, φίλοι" to "Ἡφαιστον."

3. Write, with the accents, the first three lines of passage (d).

4. Give the derivation and meaning of the following words:—
ἀμέγαρτος, ἀπέδιλος, ἀφεγγής, ἀφετός, νημερτής, ἀμφαδόν, κρήδεμνον, πύματος.

5. Scan the lines beginning πολλὰι and τᾶων in passage (a) noting any peculiarity, and reconstruct the following disarranged Iambic verse:—

σὺ τῶνδε Καδμείων μούνη ὄρας τοῦτο.

6. What events of Greek history are connected with the names of Epaminondas, Cimon, Pericles, Lysander, Agesilaus? Give dates.

7. Give an account of the character and products of Greek literature connected with any six of the following names:—Theognis, Simonides, Menander, Hesiod, Plato, Dionysius Halicarnassus, Lucian, Clemens of Alexandria, Strabo, Diodorus Siculus, Epictetus, Aeschylus, Polybius.

Friday, 12th April 1878—1 to 4 o'clock.

1. Translate into Greek—

So Cyrus knew that Croesus was a good man and that the gods loved him; and when Croesus came down from the pile, Cyrus asked him, "Who persuaded thee to march into my land and to become my enemy rather than my friend?" "The god of the Greeks urged me on," answered Croesus, "for no man is so senseless as of his own pleasure to choose war in which the fathers bury their children rather than peace in which the children bury their fathers."

2. Translate—

(a) Aeschylus, *Prometheus Bound*, 1014, from "Σκέψαι δ', ἐὰν" to "Ταρτάρου βᾶθῃ."

(b) Homer, *Odyssey* II. 420, from "τοῖσιν δ' ἔκμενον" to "πέϊρε κέλευθον."

(c) Herodotus II. 141, from "ὀλοφυρόμενον δ' ἄρα" to "πεσεῖν πολλούς."

(d) Xenophon, *Hellenica*, IV. 2, 1, from “Ἀγησίλαος μὲν δὴ” to “ὧν ὑμεῖς δεῖσθε.”

3. In passage (a) scan the line beginning *πρὶν ἂν θεῶν*, in passage (b) the last line, and reconstruct the following disarranged Hexameter and Iambic Trimeter:—

Ὀδυσσεὺς ἔων τοῖος μνηστῆρσιν ὁμιλήσειεν.
οὐχὶ πέφυκεν αἰεὶ χαίρειν τοῖς αὐτοῖς.

4. Give the derivation and meaning of the following words:—*ἀπρύγετος*, *ἄλαστος*, *διάμπαξ*, *ἀδήριτος*, *ῥαχία*, *φρούριον*, *ἄρδην*.

5. Give brief accounts of any *three* of the following events:—(1) Battle of Plataea; (2) Peace of Nicias; (3) Revolution of the Four Hundred; (4) Second Battle of Chaeronea; (5) Lamian War; (6) Formation of the Achaean League.

6. State what you know of the lives and works of any *three* of the following Greek writers:—Pindar, Xenophon, Menander, Polybius, Plutarch, Lucian.

B.—DEPARTMENT OF PHILOSOPHY.

LOGIC AND METAPHYSICS.

Examiners—Professor FRASER and Dr CUNNINGHAM.

Wednesday, 24th October 1877—9 to 12 o'clock.

1. “I must not imagine that I do not apprehend the infinite by a true idea, but only by the negation of the finite.”

Discuss the grounds Descartes alleges in support of this statement, and its bearing on his argument for the existence of God.

2. Give an account of Descartes’ doctrine of the connection of mind and body, with its bearing on his explanation of the possibility of error.

3. Contrast the doctrine of Berkeley and Descartes as to the real existence of objects “exactly such as we perceive by the Senses.”

4. “There can be no doubt that God possesses the power of producing all the objects I am able distinctly to conceive, and I never consider anything impossible to him, unless when I experience a contradiction in the attempt to conceive it aright.” How did Berkeley apply this principle to the question of the existence of Matter?

5. (a) State Locke’s doctrine of the distinction between man and the brutes. (b) How was it criticised by Berkeley? (c) Distinguish their respective doctrines with regard to *general terms*.

6. Analyse Recollection and Expectation.

7. “Every proposition is an equation.” Mention changes in formal logic which result from this view of propositions. On what other view of the relation of subject and predicate is the common doctrine of propositional forms founded?

8. (a) Can two *contraries* be false together, (b) or two *sub-contraries* true together? Illustrate your answers by means of Euler's diagrams.

9. Examine the validity of the following reasonings—

(a) I shall see you if you do not go; but as you are going I shall not.

(b) The Penge convicts were guilty of murder, for after long continued neglect at their hands, Harriet Staunton died.

(c) Only the virtuous are happy; since he is happy, he must be virtuous.

(d) All brave men deserve to be rewarded; he deserves to be rewarded, and surely is brave.

10. "A and B and C and D, &c., &c., wear black coats on Sundays; in fact every man I know does so." Is this an inductive inference; and if not, why not?

11. "Induction is a syllogism in Barbara." Examine this statement, and compare with other analyses of the logical form of inductive inference. In what does induction differ from demonstration?

12. What are the qualities of a trustworthy witness of facts? Mention signs by which the presence or absence of these qualities may be detected.

Saturday, 13th April 1878.—9 to 12 o'clock.

1. (a) What are the opinions of Locke and Berkeley, respectively, regarding General Names? (b) How did Hamilton attempt to reconcile the conflicting views? (c) Criticise the statement:—"A general name is a rule to direct the action of my mind in its application to certain things."

2. (a) What is a logical definition? (b) Define "necessity" in various meanings of the term? (c) Give examples of indefinable words, and explain why words may be indefinable?

3. (a) Construct syllogisms in *Camenes*, *Datisi*, *Bokardo*, using significant words in the examples. (b) Reduce them. (c) Give an example of an Aristotelian and a Goclenian Sorites. Analyse each into its involved syllogisms.

4. Name, define, and exemplify the chief sorts of Fallacy—(a) "within the reasoning;" and (b) "about the question." Show in what their fallaciousness consists.

5. (a) What is meant by the "criticism," and what by the "historical interpretation" of documentary testimony? (b) What marks determine the authenticity and integrity of a document? (c) Give signs of credible and incredible testimony.

6. (a) State various classifications of the phenomena of which we are conscious in sense. (b) Distinguish the several sorts of sense-consciousness popularly referred to Touch. (c) On what ground has it been held that "all the senses are modifications of Touch?"

7. Name and exemplify the Primary Laws of Association.

8. Explain the law of Inseparable Association, and mention proposed applications of it.

9. Show the irrelevance of Johnson's attempted refutation of Berkeley—by kicking a stone.

10. What beliefs appeared to Descartes to be doubtful from his own experience of himself? What on the assumption that the Deity deceives? What not doubtful even then?

MORAL PHILOSOPHY.

Examiners—Professor CALDERWOOD and Dr CUNNINGHAM.

Friday, 26th October 1877—9 to 12 o'clock.

1. Distinguish between the *standard* of morals and our *knowledge* of the standard.

2. What is meant by an *Intitutional* Theory of Morals? The answer must take account of the distinction in question 1.

3. What is meant by a *Utilitarian* Theory of Morals? The answer to embrace distinction in question 1.

4. Distinguish between (a) Rightness, (b) Personal Right, (c) Duty, (d) Responsibility. Consider the relation of the four to each other.

5. Granting the existence of natural Impulses to action, and the possibility of their regulation, discuss the ethical problems connected with self-government, while the person is under the influence of such an impulse as Desire of Power.

6. Distinguish carefully different senses of the word *Nature* as applied to man, showing in what sense it is true that *we ought to follow Nature*.

7. James Mill criticised Butler for personifying appetites, and saying that the man's appetites, not the man himself, pursued objects. How far did Butler forestall this criticism?

8. "The strength of Butler's position rests on his substitution of a better psychological analysis than that of Hobbes." Discuss this statement carefully.

9. Examine Butler's relation to Utilitarianism, especially to the system of Paley.

10. Discuss the relation of Sympathy and Conscience, according to Adam Smith and Mackintosh respectively.

11. Compare the systems of Cudworth and Clarke, pointing out a defect which is common to both.

12. Granting the generally recognised fact of voluntary activity, discuss the legitimate hypotheses which can be framed to explain it.

13. Explain what is mean by "liberty of indifference," and consider the relation in which such a theory of liberty stands to the facts of consciousness.

14. Discuss the possibility of the formation of conscience by means of Association, making special reference to Mackintosh.

15. What is "the only ground on which a person can claim a right entitled to acknowledgment by others"?

16. Explain and illustrate the conditions under which formation of moral character proceeds.

15th April—9 to 12 o'clock.

1. When a person recognises that truthfulness is right, what philosophical questions are involved in the explanation of his knowledge? Offer an answer to each, and support with evidence.

2. Distinguish between benevolence regarded as a spontaneous experience, and as a moral act.

3. What evidence have we of natural restraint upon action? How far is such restraint spontaneous, how far under our control?

4. Indicate the relation of Will to understanding, affection, and desire.

5. If a man strive to master irritability of temper, what exercise is there for conscience, judgment, will, and desire respectively?

6. Trace the action of the law of Habit (*a.*) on thought as to moral questions, (*b.*) on continuance in conduct known to be wrong.

7. "In the formation of theory, partial truth is equivalent to absolute falsehood."

Illustrate this statement by an account of the tenets of the Stoics and Epicureans.

8. Distinguish different senses of the phrase *according to nature*, and show how violent passion on the occasion of great provocation may be described as either *natural or unnatural*.

9. How does Butler attempt to prove that the appetite of hunger is not properly described as *selfish*?

10. "Why ought I not to steal?" What would have been the answers of (*a.*) Hobbes, (*b.*) Cudworth, (*c.*) Paley, respectively to this question?

11. Mackintosh charges Butler with being guilty of a vicious circle in regard to the criterion of Morality. Examine the justice of this charge.

RHETORIC AND ENGLISH LITERATURE.

Examiners—Professor MASSON and Dr CUNNINGHAM.

Friday, 26th October 1877.—1 to 4 o'clock.

1. Write a brief Essay on this subject :—"The Forest of Arden and its Natives in *As you Like it*." Attend to expression, pointing, and neatness of form.

2. Explain the following—(1) the difference between Metaphor and Metonymy, (2) Bacon's "Three Parts of Learning," (3) Aristotle's analysis of *πλοῦτος*.

3. Sketch the history of the English Language from 450 to 1250,

under the two headings of *Vocabulary* and *Grammar*. Illustrate by examples.

4. Comment on the italic words and phrases in the following passages from *The Squieres Tale*, explaining their meanings, and noting grammatical peculiarities. What is remarkable in the line to which an asterisk is prefixed?

- (1.) It lyth nat in my tonge, *nin my conning*,
- (2.) *He leet the feste of his nativitee*
Don cryen thurghout Sarray his citee.
- (3.) For which the foules, agayn the sonne shene.
What for the seson and the yonge grene,
Full loude songen *hir* affeccions.
- (4.) For noon *engyn of wyndas or polyve.*
- (5.) As it a gentil *Poileys* courser were.
- (6.) Some seyden that it was
Wonder to maken of fern-asshen glas,
And yet nis glas nat lyk asshen of fern.
- (7.) "*Cherisseth blood, natures frend*," quod he.
- (8.) Ryght in *hir haukes leden* thus she seyde :—
*"*That pitee renneth sone in gentil herte*
"Is proved al-day."
- (9.) So depe in *greyn he dyed his colours.*
- (10.) And took him by the hond, *seint John to borwe.*

5. Write two paragraphs under this title,—*Chaucer and Langland*. Let the first paragraph contrast the two poets personally ; let the second contrast their styles of versification.

6. Divide the history of the British Islands from 1580 to 1688 into *political* sections, by the reigns of the Sovereigns or otherwise ; and name, in chronological order, (1) Twelve of the most important English Poets of that whole period, (2) Four of the most important Philosophical Writers. To the names of the Philosophical Writers attach the titles of their chief works.

7. Describe briefly (*a*) the influence of Puritanism, and (*b*) the influence of French taste and forms, on English Dramatic Literature in the Seventeenth Century.

8. Give some account of the connection of Spenser's *Faery Queene* with the time in which he lived, as shown by (*a*) the meaning of the allegory of the Redcrosse Knight, (*b*) the persons idealised in the principal characters.

9. *Paradise Regained* contains a sketch of the political condition of the world at the time of Satan's temptation of Christ ; it contains also a survey of Greek Literature. State the purport of either ; explain how and for what purpose it is brought into the story of the poem ; and quote, if you can, a few characteristic lines.

10. Note the successive meanings of the word "wit" in English, with special reference to Dr Johnson's "*Metaphysical Poets*."

11. Explain this sentence in Burke's *Reflections on the Revolution in*

France:—"Few harangues from the pulpit, except in the days of your League in France, or in the days of our Solemn League and Covenant in England, have ever breathed less of the spirit of moderation than this lecture in the Old Jewry." Add some account of the state of Newspaper and Pamphlet Literature in England in the time here referred to as that of "our Solemn League and Covenant."

12. Scan the lines asterisked in the first of the following passages; and rewrite the second passage in its proper form as blank verse, without change of a word or of the order of the words:—

(1.)

Thou com'st, indeed,
 *As a poor miserable captive thrall
 *Comes to the place where he before had sat
 Among the prime in splendour, now deposed,
 *Ejected, emptied, gazed, unpitied, shunned,
 A spectacle of ruin, or of scorn,
 To all the host of Heaven. The happy place
 Imparts to thee no happiness, no joy,—
 *Rather inflames thy torment, representing
 *Lost bliss, to thee no more communicable.

(2.)

The bird of dawn did never rouse this cottager from sleep with startling summons; not for his delight the vernal cuckoo shouted; not for him murmured the labouring bee. When stormy winds were working the broad bosom of the lake into a thousand thousand sparkling waves, rocking the trees, or driving cloud on cloud along the sharp edge of yon lofty crags, the agitated scene before his eye was silent as a picture.

Monday, April 15, 1878—1 to 4 o'clock.

1. Write a brief Essay on this subject:—"Puritanism, and its influence on Spenser and Milton respectively." Attend to expression, pointing, and neatness of form.

2. State and explain—(1.) the general principle of Style deduced in the Course from the common doctrine of "The Figures of Speech" (2) the theory of the relations of Verse to Poetry.

3. Distinguish the various English dialects in the fourteenth century; and note—(a.) the districts where they were used, (b.) their differences in the inflections of the verb, and (c.) their differences in other grammatical forms.

4. Give a summary of the story of Chaucer's *Squieres Tale*, quoting some lines of it if you can. Also explain the following words and expressions in it:—

(1.) "As of the secte of which that he was born
 He kepte his lay."

- (2.) "I wol nat tellen of her strange sewes,
Ne of her swannes, ne of her heronsewes."
- (3.) "Accordant to his wordes was his chere,
As techeth art of speche hem that it lere."
- (4.) "Nat but with fyve or six of hir meynce."
- (5.) "Now herkneth what I seye."

5. Write two paragraphs under this heading:—*Wycliffe and Langland*. Let the first discuss the causes of their popularity, and the second the differences of their literary works.

6. Mention the various tests that have been proposed for determining the chronology of Shakespeare's Plays; and apply some of them to *As you like it*. Briefly characterise the author's *mood* in this play.

7. Sketch the life of Ben Jonson, and connect with it some account of the history of the English Drama from Shakespeare's death to the beginning of the "political troubles" in the reign of Charles I.

8. Give a chronological scheme—(1.) of Milton's literary life, and (2.) of Dryden's; and mention the names of six of Milton's most important literary contemporaries in each division of his life.

9. Explain the following passages in *Paradise Regained*, with their allusions:—

- (1.) "Thou Spirit, who led'st this glorious Eremite
Into the desert."
- (2.) "O ancient Powers of Air and this wide World."
- (3.) "And the great Thisbite."
- (4.) "I, as I undertook, and with the vote
Consenting in full frequence was empowered,
Have found him, viewed him, tasted him."
- (5.) "Grisamber-steamed."
- (6.) "By knights of Logres, or of Lyones,
Lancelot, or Pelleas, or Pellenore."
- (7.) "They swell with pride, and must be titled Gods,
Great Benefactors of mankind, Deliverers."
- (8.) "Zeal and duty are not slow
But on Occasion's forelock watchful wait."
- (9.) "But say thou wert possessed of David's throne
By free consent of all, none opposite,
Samaritan or Jew; how couldst thou hope
Long to enjoy it quiet and secure
Between two such enclosing enemies,
Roman and Parthian?"

10. In Johnson's *Life of Cowley* he refers to what Addison calls "mixed wit," and he also specifies the defects of Cowley's and other contemporary imitations of Pindar. Give the substance of what he says under each head.

11. State Burke's view of the nature of Toleration as a virtue; and mention any English authors who have contributed to the growth of this idea, with the names of their works.

12. Scan the lines under the heading A, giving their metrical formulæ, and also their names in the old Prosody; and rewrite the passage marked B in its proper form as blank verse, without changing a word or the order of the words:—

A.

- (1.) "Mind not though daylight around us is breaking."
- (2.) "Still when daylight o'er the wave."
- (3.) "It matters not where I may now be a rover."
- (4.) "You'll forget the poor maid of Castile."
- (5.) "O the dreary dreary moorland! O the barren barren shore!"

B.

"His tender cries and helpless innocence, do they protect the infant lamb? and shall the infirmities which have enabled this enormous culprit to perpetrate his crimes serve as a thatch to cover him from punishment? True Justice, admitting no resistance, bends alike the feeble and the strong."

C.—DEPARTMENT OF MATHEMATICS.

MATHEMATICS.

Examiners—Professor KELLAND and Mr BLAIKIE.

Monday, 22d October 1877—2.30 to 4.30 o'clock.

1. Two trains, *A* and *B*, are despatched from opposite termini of a railway at the same time, with speeds of 20 and 30 miles per hour respectively; a third train, *C*, is despatched after *B*, three hours later, with a speed of 40 miles per hour; what is the length of the railway if *A* pass *C* half-an-hour after passing *B*.

2. If a side of any triangle be produced, the exterior angle is equal to the two interior and opposite angles; and the three interior angles of every triangle are together equal to two right angles.

Hence find the sum of the interior angles of any rectilineal figure.

3. In every triangle, the square on the side subtending an acute angle is less than the squares on the sides containing that angle, by twice the rectangle contained by either of these sides and the straight line intercepted between the perpendicular let fall on it from the opposite angle and the acute angle.

Enunciate and prove the corresponding theorem in trigonometry.

4. How are arcs of circles connected with angles according to Euclid?

In equal circles equal angles are subtended by equal arcs.

ABC is a triangle inscribed in a circle. The side *BC* is bisected in *D*, and the interior and exterior angles at *A* are bisected by lines meeting the circle in *E* and *F*. Prove that *EDF* is a straight line.

5. If a straight line touch a circle, and from the point of contact a

straight line be drawn cutting the circle, the angles which this line makes with the line touching the circle, shall be equal to the angles which are in the alternate segments of the circle.

6. To describe an isosceles triangle, having each of the angles at the base double of the third angle.

Show that this proposition enables us to divide a right angle into five equal parts.

7. Divide proportionals as Euclid does.

Prove that, if four magnitudes are proportionals, equimultiples of the first and third are proportional to equimultiples of the second and fourth.

8. Prove that equiangular parallelograms have to one another the ratio which is compounded of the ratios of their sides.

Prove as a corollary that similar triangles are to one another in the duplicate ratio of homologous sides.

9. If two parallel planes be cut by another plane, their common sections with it are parallel.

10. PQ is a chord in a parabola, which, when produced, meets the directrix in R . If S be the focus, prove that SR bisects the exterior angle of the triangle PQS .

Hence show that tangents at the extremity of a focal chord intersect in the directrix.

11. Given $\tan A = \frac{5}{12}$; find $\cos A$ and $\cos 2A$.

Prove that the circle which is described through the middle points of the sides of a triangle also passes through the feet of the perpendiculars drawn from the angular points to the opposite sides.

12. Prove that the perspective projection of a quadrilateral figure situated in a plane parallel to the picture is a similar figure, the area of which depends only on the distances from the eye of the two planes.

Tuesday, 23d October 1877—9 to 11 o'clock.

1. Reduce to their simplest forms—

$$(1) \frac{\frac{3}{4} \text{ of } 3\frac{1}{3} + \frac{5}{8}}{\frac{9}{10} - \frac{1}{18} \text{ of } 1\frac{1}{3}} \div \frac{(\frac{1}{2} - \frac{1}{3})(\frac{1}{3} + \frac{1}{4})}{(\frac{1}{2} + \frac{1}{3})(\frac{1}{3} - \frac{1}{4})}$$

$$(2) \frac{10.8\dot{1}0 \times 10.2 \times 10.2}{11.3 \times 10.35 \times 9.609}$$

2. Multiply $a^2 - b^2 - a + b$ by $a^2 - b^2 + a + b$, and divide the result by $a^2 - b^2$.

3. Simplify the expressions—

$$(1) \frac{x+y}{x} - \frac{x^2+y^2}{x(y-x)} - \frac{2y}{x+y}$$

R

$$(2) \sqrt[p]{\frac{x^{\frac{1}{q}}}{x^{\frac{1}{r}}}} \times \sqrt[q]{\frac{x^{\frac{1}{r}}}{x^{\frac{1}{p}}}} \times \sqrt[r]{\frac{x^{\frac{1}{p}}}{x^{\frac{1}{q}}}}.$$

4. Find the value of $\frac{8x^2 - 44x + 20}{8x^2 - 36x - 20}$, when $x = 5$; and of

$$\frac{1}{ab - ax} - \frac{1}{bx - ab} + \frac{x}{(x - a)(cb - cx)}, \text{ when } \frac{1}{x} = \frac{1}{2} \left(\frac{1}{a} + \frac{1}{b} + \frac{1}{c} \right).$$

5. Solve the equations—

$$(1) \frac{1}{2}(x - a) - \frac{1}{3}(x - b) = 0.$$

$$(2) \sqrt{x} = 1 - 2x.$$

$$(3) 5x - 3y = 2x + 12y = 88.$$

6. A sum of money is invested, partly in Caledonian Railway stock at £123, and the rest in North British at £106. After one year the stock is sold, the price of Caledonian being now £130, and of North British £94. The price obtained is equal to the sum originally invested. During the year the Caledonian stock paid a dividend of $6\frac{1}{2}\%$, and the North British of 4%. Find the interest obtained on the sum invested.

7. Extract the square root of $x^4 - 6x^3 + 13x^2 - 12x + 4$, and

$$\frac{3 + \sqrt{5}}{3 - \sqrt{5}}.$$

$$3 - \sqrt{5}$$

8. Solve the equations—

$$x + y = 5.$$

$$x^4 + y^4 = 97.$$

Or, as an alternative, given that the roots of the equation $x^3 - 5x + 7 = 0$ are a, b, c , find the equation whose roots are a^2, b^2, c^2 .

9. Prove that, if a, b, c , are positive, $a^2 + b^2 + c^2 - bc - ca - ab$ is always a positive quantity; and that $n(1 + x^2 + x^4 + \dots + x^{2n}) - (n + 1)(x + x^3 + \dots + x^{2n-1})$ is divisible by $(x - 1)^2$.

10. Define a logarithm. Prove the rules which enable us to apply logarithms to effect multiplication, division, and involution.

$$\text{Given } \log 9 = 0.954242,$$

$$\log 5 = 0.698970.$$

Find the logarithms of 2, .3, .045, and 120.

11. Express the secant and cotangent of an angle in terms of the sine, and find the value of $\sec 30^\circ$, $\cot 30^\circ$, $\sec 45^\circ$, $\cot 90^\circ$.

A person on a level with the base of a tower, after observing the top to subtend an angle A , approaches the base by a distance a , and then

finds that the top subtends an angle B . Find an expression for the height of the tower in terms of functions of the angles A and B , and the distance a .

12. Prove the expansion of a^x in ascending powers of x .

Or, as an alternative—

Prove that any convergent is nearer to the continued fraction than any other fraction which has a smaller denominator than the convergent has.

Form three sets of convergents to $4 + 2\sqrt{3}$.

Thursday, 11th April 1878.—3 to 5 o'clock.

1. If 424 kilogramme-mètres of work are done in heating a kilogramme of water 1° Centigrade, deduce the number of foot-pounds required to raise a pound of water 1° Fahrenheit. (A *mètre* is 3.28 feet, and 5° Centigrade are equivalent to 9° Fahrenheit.)

2. Give Playfair's definition of a straight line.

Hence prove Euclid's axiom concerning right angles.

The angles which one straight line makes with another are either two right angles or are together equal to two right angles.

3. In any right-angled triangle, the square which is described upon the side subtending the right angle is equal to the squares described upon the sides which contain the right angle.

Indicate a second method by which the above theorem may be proved.

4. Give a single enunciation for the 12th and 13th propositions of Euclid's Second Book, and give a brief demonstration.

5. What is meant by the distance of a point from a straight line.

How may the distance of a given point from the circumference of a circle be found.

Define similar segments of circles.

Upon a given straight line to describe a segment of a circle containing an angle equal to two-thirds of a right angle.

6. To describe a circle about a given triangle.

If one angle of the triangle is 60° , and the opposite side equal to 10, find the radius of the circle.

7. $ABCD$ is a straight line cutting the circles ABE , and CDE , in the points A and B , C and D . Find a point in this line from which equal tangents can be drawn to the two circles, and show that the point divides AC and DB in the same ratio.

Or, as an alternative, prove as Euclid does, that if there be three magnitudes, and other three which, taken in a cross order, have the same ratio, the first will have to the last of the first magnitudes the same ratio which the first of the others has to the last.

8. Similar polygons may be divided into the same number of similar triangles which have the same ratio as the polygons have, viz., the duplicate ratio of homologous sides,

9. If two planes be each of them at right angles to a third plane, their common section is at right angles to that plane.

10. To draw a tangent to an ellipse from a point in the curve.

Prove that in the ellipse the axis minor is a mean proportional between the axis major and the latus rectum.

11. Define the sine, tangent, and secant of an angle, and express the cosine and sine in terms of the secant.

Obtain expressions for $\sin. 2A$ and $\tan. \frac{1}{2}A$ in terms of $\sin. A$ and $\cos. A$.

12. Determine the expression for the area of a triangle in terms of the sides.

Or, as an alternative, deduce the polar reciprocal of the following problem:—"A quadrilateral is described about a circle and the points of contact are joined whereby a quadrilateral is inscribed in the circle; the diagonals of the two quadrilaterals all intersect in the same point."

Friday, April 12, 1878—9 to 11 o'clock.

1. In 1876 the profit realised by the London, Chatham, and Dover Railway Company bore to the expenses the proportion of 13 to 15. In 1877 the gross receipts increased $3\frac{1}{2}$ per cent., while the expenses increased $1\frac{1}{3}$ per cent. Find how much per cent. the profits increased.

2. Simplify

$$6\left\{x - \frac{1}{2}(x-1)\right\}\left\{x - \frac{2}{3}(x-1)\right\} + 20\left\{x - \frac{3}{4}(x-1)\right\}\left\{x - \frac{1}{5}(x-1)\right\}.$$

Verify your result by finding the numerical value, when $x=1$.

3. Find the greatest common measure of

$$a^3 + a^2b + ab + b^2 \text{ and } a^4 - b^2;$$

and the least common multiple of

$$2x^3 - 2ax^2 + 3a^2x - 3a^3 \text{ and } 2x^3 + 2ax^2 + 3a^2x + 3a^3.$$

4. Find the square root of

$$4x^4 + 4x^2y^2 - 12x^2z^2 + y^4 - 6y^2z^2 + 9z^4.$$

$$\text{and of } \frac{2x^2 + 8x + 8}{2x^2 + 2x + \frac{1}{2}}.$$

5. State the law of indices, and deduce from it the values of

$$a^0, a^{-n}, \text{ and } a^{\overline{n}}$$

$$\text{Simplify } \frac{a^{-4}}{a^{-5}} \sqrt{a^{-3}}$$

6. Solve the equations

$$(1.) \frac{3}{(3x+1)(2x-3)} = \frac{5}{(5x-4)(2x+5)}.$$

$$(2.) (x-a)^3 + (x-b)^3 + (x-c)^3 = 3(x-a)(x-b)(x-c).$$

$$(3.) \begin{aligned} x^2 + xy &= 16 \\ y^2 + xy &= 20. \end{aligned}$$

7. Prove that a quadratic equation cannot have more than two roots. Form a quadratic equation having its roots 2 and 7, and another with numerical coefficients, one of whose roots is $1+\sqrt{3}$.

8. Three persons, *A*, *B*, and *C*, perform a piece of work together in a certain time. *A* could have done it alone in 6 hours more, *B* in 15 hours more, and *C* in twice the time. How long did it occupy them.

9. Expand $\log(1+x)$ in terms of x .

Find the present value of £1000 due 10 years hence, at 5 per cent. compound interest.

$$\begin{aligned} \text{Given } \log 1.05 &= .02119. \\ \log 6.139 &= .78810. \end{aligned}$$

10. Explain how the probability that an event will happen may be represented by a fraction.

A bag contains three red and two white balls. Two balls are taken out at random, find the probability that both are red.

As an alternative, prove that the locus of the intersection of the tangent to a parabola, with the perpendicular to it from the vertex is a cissoid.

11. Prove that in any triangle *ABC*, of which *abc* are the sides.

$$b^2 + c^2 - a^2 = 2bc \cos. A.$$

Given $\cos. A = \frac{9}{41}$, find $\tan. A$.

12. If the opposite edges of a tetrahedron are equal, prove that the lines which join their points of bisection are perpendicular to them.

Or, as an alternative, find the sum of the squares of the reciprocals of the natural numbers.

NATURAL PHILOSOPHY.

Examiners—Professor TAIT and Mr BLAICKIE.

Wednesday, 24th October 1 to 4 o'clock.

(Not more than 18 questions, in all, to be answered.)

1. Define Velocity.

Prove that we cannot know the absolute velocity of a body.

A and *B* are two points in motion on a horizontal plane. At the

moment under consideration A has a velocity of 1 northwards, and B has a velocity of $\sqrt{3}$ eastwards. Find the velocity of B with respect to A .

2. Define the term *Elasticity*, and illustrate it by examples.

3. Show that the forces, acting on a body which is at rest with respect to the earth's surface, are not in exact equilibrium.

4. Explain the origin of the terms *Density* and *Specific Gravity*. What is the nature of the physical connection between them, and by what kind of experiment is it proved?

5. Define and explain the terms *Mass*, *Weight*, *Stress*, *Acceleration*, *Work*, a *Material Particle*.

6. What data are required for the calculation of the pressure of the air inside a soap-bubble, and how can they be obtained?

7. Assuming the acceleration due to gravity to be uniform, prove that when a mass M falls from rest through a distance s ,

$$Ws = \frac{1}{2} Mv^2,$$

where W is the weight of the mass, and v its final velocity.

Interpret the equation in terms of *Energy* and *Work*.

8. State *Kepler's Laws* of planetary motion, and mention Newton's immediate deduction from each.

9. What is meant by weighing a body in water?

If the same body, of specific gravity 10 suppose, have weights W_0 , W_1 , W_2 , etc., in *vacuo*, and in various liquids respectively, what are the specific gravities of these liquids?

10. The year of Mars is nearly $1\frac{7}{8}$ of our year. At what intervals do *Oppositions* of Mars succeed one another, and how are the positions in the Zodiac at which they occur situated with respect to one another?

11. Name the chief great advances made in physical science by Galileo, Roemer, Rumford, Young, and Joule respectively.

12. What becomes of a ray of light which, moving in a uniform medium, falls upon the bounding surface of another uniform medium?

13. When a voltaic battery drives an electro-magnetic engine, there is less zinc used in a given time if the engine does work than if the engine does no work.

How do you reconcile this statement with the principle of the conservation of energy?

14. Explain fully one process for the determination of the Velocity of Light.

15. Why is it impossible to make a snow-ball on a very cold day?

16. Define *Temperature*, *Quantity of Heat*, and *Specific Heat*. Explain a mode of definitely measuring any one of these.

17. A 50 lb. shell, moving at the rate of 1000 feet per second, explodes symmetrically into 2 lb. fragments. One of these has its velocity increased in magnitude without change in direction. Find its new velocity, assuming that 250,000 foot-pounds of kinetic energy are generated by the explosion.

18. What is meant by an *Echo*, and how is it caused? How can it

be employed by a single observer to determine (roughly) the velocity of sound?

19. Two convex lenses have focal lengths of 3 inches and 1 inch respectively. Show how they are to be placed, (1) so as to form a telescope, (2) so as to form a compound microscope.

20. Explain why the fundamental note of an open organ-pipe is an octave higher than that of a closed pipe of the same length. How are the harmonics in the closed pipe related to the fundamental note?

21. Explain the cause of *Spring* and *Neap Tides*, and define and account for what is called the *Establishment* of a port.

22. Mention some of the characteristic phenomena of the *Aurora*, and show their bearing upon the explanation of the cause of this meteor.

23. Explain the apparent attraction between air-bubbles on the surface of water.

24. Define the magnetic *Variation*, *Dip*, and *Intensity* at a place; and explain generally the methods employed for finding them.

25. Define the *Potential* of a Charge of Electricity, and the *Capacity* of a Conductor. How does the energy of the Charge depend upon these quantities?

For the Neill-Arnot Prize, in addition to not more than 13 of the above questions, the following are to be taken:—

a. Describe the processes of calibrating, filling, and graduating, a spirit thermometer.

β. If a band of any material an inch broad would give way under an appended weight of 10 lbs., what pressure per square inch would just burst a spherical bag of the same material a yard in diameter?

γ. Give a general idea of the nature of the process by which the rate of propagation of nerve-irritation has been measured.

δ. Explain, in a general way, how the thickness of a soap film can be determined from its colour.

ε. How can you compare the velocity of Sound in different gases by the help of an organ pipe?

Saturday, April 13, 1878—1 to 4 o'clock.

(Not more than 18 questions in all to be answered.)

1. Define *Viscosity* in liquids and gases. Give examples of its effects, and show upon what it depends.

2. Explain carefully what is meant by saying that a moving point has a *component* velocity in a certain direction.

Given two components, find the resultant velocity.

3. Obtain the equations of motion of a point which moves in a straight line with uniform positive acceleration.

Hence find how many whole seconds a stone takes to fall a mile, as-

suming that gravity produces a constant acceleration of 32.2 feet per second.

4. State the law of gravitation.

Assuming the diameter of Jupiter to be 11 times, while its density is $\frac{1}{50}$ of, that of the Earth, find the weight of one pound of matter on the surface of Jupiter.

5. Define *Elasticity*. What is meant by the common expression, "the elasticity of vapour in the atmosphere," and how did it probably originate?

6. State *Hooke's Law*, and give one very general illustration of its truth.

7. Distinguish carefully between *Temperature* and *Quantity of Heat*, and illustrate the difference by various physical analogies.

8. State Newton's laws of motion, very briefly indicating the immediate inferences from each law.

9. Three forces acting on a rigid body are in equilibrium, prove—

(1.) That they are coplanar.

(2.) That their lines of direction cannot meet in more than one point.

(3.) That no one force can exceed in magnitude the sum of the other two.

10. Describe fully an experiment in which the fact of the Earth's rotation is proved by means of a pendulum.

11. Explain what is meant by *Specific Heat*, and point out the nature of the relation between the two Specific Heats of air.

12. Point out the nature of the process by which we may ascertain whether we are approaching to, or receding from, a particular fixed star. If it be a double star, how can we by the same process find its distance?

13. State the fundamental experiment in *Electro-magnetism*, and show how it has led to the production of powerful temporary magnets.

14. Explain the relation between Fahrenheit's thermometer and the centigrade. A quantity of air in a closed vessel exerts a pressure of 15 lbs. on the square inch at the temperature of 0° C., what pressure will it exert when raised to the temperature of 100° C.?

15. Why does the velocity of sound depend upon the temperature, and not upon the pressure, of the air?

16. Explain, briefly, one method of determining the electrification of the air. Name some of the more probable sources of atmospheric electricity.

17. Define a *Line of Magnetic Force*, and show how to find at any station the direction and magnitude of the earth's magnetic force.

18. Explain the formation of an image by a concave mirror, showing clearly why it is inverted when real, and erect when virtual.

19. Two equal vessels, one containing air, the other exhausted of air, are connected by a stop-cock. Show what changes in the temperature

are caused by opening the stop-cock. Show also whether the energy of the system is in any way altered.

20. What is the solar spectrum, and how is a pure spectrum obtained? On what principle is the theory of spectrum analysis founded?

By whose experiments was this principle demonstrated?

21. Explain the kinetic theory of gases, and show that it accounts for the fact that the pressure of a gas varies inversely as the volume.

22. Explain how the action of the moon causes a tide every twelve hours. What is meant by the *Diurnal*, and what by the *Lunar Fortnightly* tide?

23. Define the *Capacity* of a conductor for Electricity, and show that for similar bodies the capacity is as their linear magnitude. Why is the capacity per unit of length usually greater in a submarine cable than in a land line?

24. Explain the action of a *Lightning-rod*, and point out the precautions necessary to its efficiency.

D.—NATURAL SCIENCE.

GEOLOGY.

Monday, 22d October 1877.

1. Describe the geological work of Ice in its different forms.
2. Describe the process of Weathering in Limestone and Granite.
3. Draw a section across any Mountain-Chain and show how the relative dates of successive upheavals may be fixed.
4. Give the characters of the component minerals in Granite, Basalt, Carrara Marble, and Serpentine.
5. Give the petrographical characters and mode of origin of Trachyte, Syenite, Gneiss, Clay-Slate, Fireclay, and Carboniferous Limestone.
6. How are Fossils made use of in Geology?
7. Describe briefly the Carboniferous System of England, and mention some characteristic fossils of each subdivision.
8. How would you distinguish rocks of the age of the Bala Limestone from those of the age of the Magnesian Limestone?
9. Give an account of the Eocene rocks of Britain.
10. Name the specimens placed before you.

EXAMINATION IN ARTS FOR HONOURS.

A. - DEPARTMENT OF CLASSICAL LITERATURE.

LATIN.

Examiners—Professor SELLAR and Mr WILSON.

Tuesday, 16th April 1878 —9 to 12 o'clock.

Translate into Latin Prose :—

1. The institutions of policy, the goods of fortune, the gifts of Pro-

vidence, are handed down, to us and from us, in the same course and order. Our political system is placed in a just correspondence and symmetry with the order of the world, and with the mode of existence decreed to a permanent body composed of transitory parts; wherein, by the disposition of a stupendous wisdom, moulding together the great mysterious incorporation of the human race, the whole, at one time, is never old, or middle-aged, or young, but in a condition of unchangeable constancy, moves on through the varied tenour of perpetual decay, fall, renovation, and progression. Thus, by preserving the method of nature in the conduct of the state, in what we improve, we are never wholly new; in what we retain we are never wholly obsolete. By adhering in this manner and on those principles to our forefathers, we are guided not by the superstitions of antiquarians, but by the spirit of philosophic analogy. In this choice of inheritance we have given to our frame of polity the image of a relation in blood; binding up the constitution of our country with our dearest domestic ties; adopting our fundamental laws into the bosom of our family affections; keeping inseparable, and cherishing with the warmth of all their combined and mutually reflected charities, our state, our hearths, our sepulchres, and our altars.

Tuesday, 16th April 1878.—1 to 4 o'clock.

Translate:—

1. Plautus, *Miles Gloriosus*, ii., 200-218, from "Quaere: ego hinc," to "lucet hoc inquam."
2. Lucretius, v., 281-305, from "Largus item liquidi," to "forte vigere."
3. Virgil, *Georgics*, iv., 51-66, from "Quod superest," to "cunabula condent."
4. Virgil, *Aeneid*, iii., 662-683, from "Postquam altos tetigit," to "vela secundis."
5. Cicero, *Philippics*, xiii., 5, sect. 10, from "Decrevistis tantam," to "nominatione cooptabo."
6. Tacitus, *Annals*, vi., 22, from "Sed mihi," to "et nostra tulerit."
7. Pliny, *Letters*, vii., 20, from "Librum tuum legi," to "constringant. Vale."

Thursday, 18th April 1878.—9 to 12 o'clock.

1. The influence of Ennius on the spirit and form of later Roman literature.

2. Comment on the following criticisms:—

"Plautus ad exemplar Siculi properare Epicharmi."
"Aspice, Plautus

Quo pacto partes tutetur amantis ephebi,
Ut patris attenti, lenonis ut insidiosi;
Quantus sit Dossennus edacibus in parasitis;
Quam non adstricto percurrat pulpita socco."

3. The descriptive passages in Lucretius considered as indications of his mode of life.

4. Comment on the use of the words *sanctum*, *divinitus*, *pīi*, *pietas*, in the following passages :—

“ Nil tamen hoc habuisse viro praeclarius in se
Nec sanctum magis et mirum carumque videtur.”

“ Quamquam multa bene ac divinitus invenientes
Ex adyto tanquam cordis responsa dedere.”

“ Quique pīi vates et Phoebō digna locuti.”

“ Di me tuentur : Dis pietas mea
Et Musa cordi est.”

“ O dii, reddite mi hoc pro pietate mea.” (Catullus.)

5. Greek and Italian influences acting on the mind of Virgil in the composition of the Georgics.

6. The delineation of character in the Æneid.

7. The political history of Rome during the interval between the Sempronian and Gabinio-Manilian enactments.

8. An account of the course of events from the death of Julius Cæsar to the death of Cicero.

9. The conduct and character of Germanicus as treated by Tacitus.

10. Scientia Chaldaeorum artis—the rise and influence of astrology in Rome.

11. Draw a map of Rome, marking the chief localities.

12. Write short notes on the following passages :—

(a.) M. Pisonem ignominiae exemit concessitque ei paterna bona, satis firmus, ut saepe memoravi, adversum pecuniam, et tum pudore absolutae Plancinae placabilior.

(b.) Id summi fastigii vocabulum Augustus repperit ne regis aut dictatoris nomen adsumeret ac tamen appellatione aliqua cetera imperia praemineret.

(c.) Ne Spartaco quidem post tot consularium exercituum clades inultam Italiam urenti, quamquam Sertorii atque Mithridatis ingentibus bellis labaret respublica, datum ut pacto in fidem acciperetur : nedum pulcherrimo populi Romani fastigio latro Tacfarinas pace et concessione agrorum redimeretur.

GREEK.

Examiners—Rev. J. KEITH and Mr WILSON.

Wednesday, 17th April 1878—9 to 12 o'clock.

Translate into Greek :—

1. Such was the first originating germ of that temporary calamity, which so near brought Athens to absolute ruin, called the Oligarchy of Four Hundred ; a suggestion from the same exile who had already so deeply wounded his country by sending Gylippus to Syracuse, and the Lacedæmonian garrison to Dekeleia. As yet, no man in Samos had

thought of a revolution ; but the moment that the idea was thus started, the trierarchs and wealthy men in the armament caught at it with avidity. To subvert the democracy for their own profit, and to be rewarded for doing so with the treasures of Persia as a means of carrying on the war against the Peloponnesians, was an extent of good fortune greater than they could possibly have hoped.

2. Education, according to Plato, is to place youth in happy circumstances, in which no sights or sounds of evil, or allurements of passion, can hurt the character or vitiate the taste. They are to live in an atmosphere of health ; the breeze is always to be wafting to them the impressions of truth and goodness. Could such an education be realised, or even could religious education be bound up with truth and virtue and good manners and good taste, that would perhaps be the best hope of human improvement. Plato, like ourselves, is looking forward to changes in the moral and religious world, and is preparing for them. He recognizes the danger of unsettling young men's minds, and doing away with the sacredness of one set of ideas before we have anything to put in their place which has an equal hold on the mind.

Wednesday, 17th April 1878—I to 4 o'clock.

Translate :—

1. Homer, *Odyssey* V. 474-493, from “Ὡς ἄρα” to “βλέφαρ’ ἀμφικαλύψας.”

2. Æschylus, *Agamemnon*, 958-974, from “ΚΑ. ἔστιν θάλασσα” to μέλλης τελεῖν.”

3. Aristophanes, *Clouds*, 1345-1367, from “σὸν ἔργον” to στόμφακα κρημονοιοῦν.”

4. Plato, *Republic*, 374, B. ii. 14, from “ἡ περὶ τὸν πόλεμον” to ὄργανα ἦν ἀξία.”

5. Aristotle, *Ethics* I., 13-18, from “Φαίνεται δὴ καὶ” to “ἀρετὰς λέγομεν.”

6. Lucian, *Icaromenippus*, 29, xlv., from “κάπειδὴ παρήσαν” to “ἀγῶνα μεμισθωμένον.”

7. Thucydides VIII. 2, from “Τοῦ δ’ ἐπιγιγνομένου” to “ἀσφαλῶς ἡγήσεσθαι.”

GREEK HISTORY AND LITERATURE.

Examiners—Rev. J. KEITH and Mr WILSON.

Thursday, 18th April 1878—I to 4 o'clock.

1. Enumerate the reforms, political and social, introduced by Solon, Cleisthenes, and Pericles, respectively. Which of these does Aristophanes characterise as φιλόδημος τὴν φύσιν, and how far is the epithet justified by his legislation?

2. Give an account of the part played by Thebes in the history of Greece.

3. Give an outline of the events which led to the subjugation of Greece by the Romans.

4. State Aristotle's criticism of the Platonic doctrine of Ideas in the *Ethics*. Discuss the soundness of the criticism.
5. Discuss the political intention of the *Clouds*. Quote or refer to passages.
6. Estimate Lucian as a man of letters. Trace his influence on modern literature.
7. Give an account of the functions of the Chorus as it appears in Greek Tragedy. Trace its history in Greek Drama.
8. In what various forms has the theory of the divided authorship of the Homeric poems been held? Criticise them.
9. Classify and illustrate the points in which the Greek of the New Testament differs from Classical Greek. Account for the differences so far as they can be referred to known philological laws.
10. Compare a play of Æschylus with (a.) a play of Aristophanes, and (b.) a play of Shakespeare.

B.—DEPARTMENT OF PHILOSOPHY.

LOGIC.

Examiners—Professor CAMPBELL FRASER and Dr CUNNINGHAM.

Tuesday, 16th April 1878—9 to 12 o'clock.

1. (a) State the Law of Identity, and discuss the value of Hegel's criticism of it.
(b) How far does the law express the mental process gone through in such judgments as :—*This is the horse I saw yesterday. All circles are round?*
2. What is Mill's doctrine of *Natural Kinds*? Examine its relation to (a) his remarks on *Essence*, (b) his doctrine of *Definition*, and (c) his view of the *Inductive Methods*.
3. "Because a horse is an animal, the head of a horse is the head of an animal."
Examine the validity of this inference. Can you express the reasoning syllogistically, or symbolically?
4. "Logic, instead of being a science of certain subjective correlations, is a science of certain objective correlations."—*Spencer*.
How would you argue in support of this assertion?
5. The directors of a railway were each of them either bondholders or shareholders but not both; and all the bondholders were directors. What conclusion follows?
6. State the reasons for and against considering the syllogism a case of *Petitio Principii*. Criticise them.
7. Express the following syllogistically, and say what are the major, minor, and middle terms :—Elephants are stronger than horses; horses are stronger than men; therefore Elephants are stronger than men.

8. What does Aristotle mean by *οἱ ἐξ ὑποθέσεως συλλογισμοί*? Is the distinction between categorical and hypothetical inferences verbal, or on what does it depend?

9. What is meant by the *matter* of thought? Distinguish its nature among savage races, persons of ordinary education, and mathematicians engaged in solving a problem.

10. "Locke, applying the method of Bacon to objects of inner experience," etc.—*Ueberweg*.

Describe the essential features of the "method of Bacon." Exemplify them in detail by reference to Locke's *Essay*.

METAPHYSICS.

Tuesday, 16th April 1878.—1 to 4 o'clock.

Examiners—Professors CAMPBELL FRASER and Dr CUNNINGHAM.

1. Describe the function of *Imagination* as a factor in the growth of knowledge.

Discuss the possibility of drawing an absolute distinction between different faculties.

2. Distinguish the psychological questions as to (a) the chronological development, (b) the logical conditions, and (c) the physiological conditions of adult knowledge.

Which was the problem of Locke and Kant respectively?

3. Does Sense supply (a) the whole, (b) a kind, (c) an element, or (d) not even an element of knowledge?

What philosophers have maintained these opinions respectively?

4. Contrast the Kantian and Association hypotheses as to the formation of the notion of an object, with regard to (a) their sufficiency, and (b) simplicity.

5. How would you disprove the illusiveness of knowledge against Hume? Does Ueberweg's justification of the validity of knowledge seem to you sufficient?

6. What is the meaning of the word *transcendent*? Discuss its application to the Evolution theory of the genesis of Mind.

7. Distinguish Mathematical, Logical, and Physical Necessity, giving the psychological basis of each.

How far were these distinctions recognised by Locke?

8. What, according to Hume, is the *medium* by which we infer that bread, having nourished me in the past, will do so to-morrow?

Compare his account with that of J. S. Mill.

9. Analyse the causes of the pleasure you feel from listening to a symphony or looking at a picture.

10. Is the phrase "I feel a pain in my toe" an accurate one? What was Berkeley's view?

Enumerate various instances of reflex action.

Wednesday, 17th April 1878.—9 to 12 o'clock.

(No Candidate to attempt more than ten questions, among which the first five must be included.)

1. Enumerate carefully the mental elements denoted by the word *idea* in the writings of Locke, Berkeley, and Hume respectively.

2. Give, and discuss the value of, Hume's and Berkeley's criticism of Malebranche's account of the active principle in the universe.

3. (a.) Apart from mind. (b.) Apart from my mind. (c.) Imprinted on my mind. (d.) Outside of one another for the mind. Distinguish the above senses of the word *external* as applied to sensible objects. In which of them would it have been used by Berkeley?

4. State the Kantian distinction between Analytic and Synthetic judgments of different kinds. How far were these anticipated by Locke?

5. By what method did Kant discover the categories? How far do they correspond to distinctions drawn in formal logic? Do you regard Kant's list as (a.) exhaustive; (b.) redundant?

6. "I never denied that the mind could frame to itself ideas of relation." Discuss carefully the nature of the mental activity which LOCKE insists on in the formation of ideas of relation.

7. "All our impressions are innate, and our ideas are not innate."—HUME. How far does this agree with Locke's doctrine? What was the precise theory of innate principles that Locke opposed? Illustrate from ancient or seventeenth century authors.

8. "Marsilius Ficinus, his appearing the moment he died solved by my idea of Time." What was BERKELEY's idea of Time, and how did it solve the difficulty of such apparitions?

9. Give a brief account of Kant's metaphysical exposition of Space and Time. Examine the justice of Ueberweg's criticism that it involves an argument in a circle.

10. Give the substance of Kant's criticism of Rational Psychology? Does his argument establish the conclusion that the Soul is unknowable?

11. Discuss the *fairness* of Plato (a.) in identifying the *Homo Mensura* doctrine with the theory that *all cognition is sensation*, and (b.) in charging the former doctrine with annulling *dialectic*.

12. Distinguish carefully various senses in which the *Relativity* of knowledge has been asserted, with special attention to the views of Hamilton, Mill, and Bain. Discuss how far the doctrine, in any form, conflicts with a belief in the existence of *Objective Truth*.

13. What reasons can be assigned for the difference between various individuals in regard to *sense-perception*? Answer with regard to the distinction between those which are due to physical and to mental conditions.

14. State and criticise the Platonic distinction between *ἐπιστήμη* and *δόξα* paying special attention to the conditions which are necessary for producing each.

15. What various senses of *life* does Aristotle distinguish?

How does he describe the relation between soul and body? Carefully explain any technical terms employed.

16. *Φρόνιμα μὲν ἀνὲρ τὸν μάθανειν*. Discuss the satisfactoriness of the distinction which Aristotle draws between insect and human intelligence.

Compare his views with those of Descartes or any modern writer.

17. How does Aristotle group the five senses? State and criticise his doctrine of *visual perception*.

18. What is Aristotle's view of First Principles? Answer with regard to their genesis in the individual mind.

19. What, according to Plato, was the place of *dialectic* in human knowledge, and why did he consider youths unfitted for it?

20. Explain the relation of Spinoza to the philosophy of Descartes.

MORAL PHILOSOPHY.

Examiners.—PROFESSOR CALDERWOOD and REV. W. CUNNINGHAM.

Wednesday, 17th April 1878. —1 to 4 o'clock.

1. Examine the various views of Plato on the Idea of the Good; and discuss the accuracy of Aristotle's representation of the Platonic view.

What was Aristotle's position in regard to the doctrine of Ideas in general, and to the Idea of the Good in particular?

2. Give Aristotle's division of possible modes of life.

What are his reasons for excluding the *χρηματιστής* from a place in his list?

Compare Plato's classification of characters, and show how far the two lists correspond.

3. What is the precise analogy drawn by Plato between the life of the individual and that of the state?

Contrast it with the analogy detected by Hobbes.

4. Discuss carefully Aristotle's conception of *εὐδαιμονία*. Explain its precise relation to external conditions.

Show how it is, that it cannot be enjoyed by a child, while it may by the gods.

5. Trace the elements of previous thought which are combined in the doctrine of *μεσότης*.

Show the way in which Aristotle applies this principle to *ἀνδρεία* and *σωφροσύνη*.

What did Kant regard as the defect of the doctrine?

6. What is Aristotle's view of the nature and method of Ethical Science?

Answer with special attention to (a.) the conditions which are necessary for entering on the study, and (b.) the amount of accuracy to be obtained in the conclusions.

7. What is Kant's doctrine on the differences between duties of *perfect* and *imperfect* obligation? Can you reconcile his different utterances on this point?

8. Cousin asserts that Kant's ethical teaching is wholly inconsistent with the views maintained in the *Kritik of Pure Reason*.

Examine the alleged inconsistency with special reference to the Categorical Imperative and the beliefs in God, and in the Immortality of the soul.

9. "We assume ourselves free, to explain our subjection to the moral law, and then we figure ourselves subjected to this law, because we have attributed to ourselves the property of freedom."

What is Kant's solution of this apparent circle? Does it seem to you satisfactory?

10. "It is *psychologically* impossible to will particular duties out of mere reverence for an empty form: and it is *logically* impossible to deduce a code of particular laws from one universal form."

Discuss the relevancy and cogency of this criticism of Kant's Ethics.

18th April 1878.—9 to 12 o'clock.

1. Consider the various aspects of Law scientifically recognised, carefully indicating the difference between Moral Law and other forms of law. Support conclusions with evidence.

2. State the doctrine of supremacy of Conscience. Consider whether it implies supremacy of power, or of law, or of both. Give a summary of the evidence on which the doctrine is supported.

3. What value has been attached, under opposite theories, to a painful feeling consequent on a violation of duty. Critically examine the estimate given in each case.

4. Enumerate the varieties of usage affecting "Moral Sentiments." Give historical references, and critically examine each view.

5. Surveying the field of voluntary action, carefully estimate the possible influence of (a.) circumstances, (b.) nature, (c.) reflective exercise, assigning its maximum to each.

6. Consider the bearing of a doctrine of heridity on personal responsibility.

7. Distinguish moral evil from other forms of evil; state the exact bearing of moral evil on the construction of ethical theory; and the relative position of the problem concerning the origin of evil.

8. State in full the problem concerning the possibility of a knowledge of an Infinite and Absolute Being; set in clear form the conflicting positions on the question, and discuss their merits.

9. Consider what degree of responsibility attaches to man in connection with his habits of thought.

10. Set forth the different elements of moral character, and illustrate their dependence (*a.*) on thought, (*b.*) on personal conduct.

Thursday, 18th April 1878.—1 to 4 o'clock.

No Candidate to attempt more than ten questions.

1. Compare and criticise the different accounts given by (*a.*) Hartley, (*b.*) Mackintosh, (*c.*) Bain, of the formation of Conscience by Association.

2. Illustrate the growth of moral feeling since ancient days by contrasting the list of virtues enumerated by Plato with those treated by Cicero and Kant.

3. Discuss the possibility of forming an accurate calculus of pleasurable and painful effects of action, and criticise Bentham's or any other such attempt. How far is the success of this attempt necessary to Utilitarianism?

4. Sketch the History of Utilitarianism, calling special attention to traces of the doctrine before the time of Hume, and showing in what way it has been modified by succeeding writers.

5. What is the nature of Berkeley's ethical teaching? How far does Mackintosh's estimate of it seem to you to be satisfactory?

6. Kant criticises the ethical systems of all other authors as based on *Heteronomy* and subversive of morality.

How would he have argued against the systems of Clarke and Adam Smith?

Compare Price's doctrine with that of Kant on this point.

7. "Private vices, public benefits."

(*a.*) By what moralists has this thesis been maintained? Discuss the maxim from the point of view; (*b.*) of a modern *egoist*; (*c.*) of a modern *utilitarian*.

8. What is the reason of the importance which Locke attaches to the distinction between the questions, whether the will is free, and whether the man is free? Which question did Aristotle discuss?

Give some account of his answer.

9. Taking (*a.*) Hume's doctrine of necessary connection, and (*b.*) the doctrine he attacked, how far is it possible to reconcile the belief in *Free Choice*, with the belief in the universality of *Causation*?

10. Point out the differences in the ethical psychology of Hobbes, Shaftesbury, and Butler.

11. Discuss the analogy between Ethical and Mathematical truth, with special reference to the doctrines of Locke, Clarke, and Spinoza.

12. Discuss the grounds on which the rightness of inflicting punishment is based, with special reference to the statements in the *Protagoras*. Distinguish the doctrine of the *Gorgias* on this point.

13. Compare the identification of *pleasure* and *good* in the *Protagoras*, with (*a.*) the doctrine in other dialogues, (*b.*) with that of Mr J. S. Mill.

14. Distinguish carefully the position taken in the *Apology* and *Phaedo* with regard to the immortality of the Soul ; and discuss the value of the arguments in the latter.

What is Aristotle's precise view on this subject ?

15. Describe the ethical teaching of a Sophist as represented in the *Protagoras*. Note clearly the points in which it seemed unsatisfactory to Socrates.

16. Contrast the views taken in the *Phaedrus* and *Republic* as to the development of philosophic capacity.

17. Explain carefully how far Spinoza's system is open to the charge of making God the author of evil.

18. State clearly the leading doctrines of Wollaston, and show his precise relation to Clarke.

19. *Conatus quo unaquaeque res in suo esse perseverare conatur.* Show how this tendency is related to desire and pleasure in individuals. Compare this doctrine with that of modern evolutionists.

20. Compare carefully the proofs of the existence of God given by Descartes and Clarke.

C.—DEPARTMENT OF MATHEMATICS.

MATHEMATICS.

Examiners—Professor KELLAND and Mr BLAIKIE.

Tuesday, April 16, 1878.—9 to 12 o'clock.

1. If $x + y + z = 0$, then

$$\left(\frac{y-z}{x} + \frac{z-x}{y} + \frac{x-y}{z} \right) \left(\frac{x}{y-z} + \frac{y}{z-x} + \frac{z}{x-y} \right) = 9.$$

$$\text{and } \frac{x^5 + y^5 + z^5}{5} = \frac{x^3 + y^3 + z^3}{3} \cdot \frac{x^2 + y^2 + z^2}{2}.$$

2. Solve the equations

$$(1.) \left(x + \frac{1}{3} \right)^{\frac{1}{2}} \left(x + \frac{2}{3} \right)^{\frac{1}{2}} (x+1)^{\frac{1}{2}}.$$

$$(2.) \begin{cases} x + z = y + u = 2a, \\ xz - uy = 2b^2, \\ x^2 + y^2 + z^2 + u^2 = 4(a^2 + c^2). \end{cases}$$

3. Enunciate and prove Descartes' rule of signs.

Find the condition that the roots of $ax^2 + 2bx + c = 0$, may be found from those of $a'x^2 + 2b'x + c' = 0$, by adding the same quantity to each root.

4. If $\frac{p_n}{q_n}$ be the n th convergent to the continued fraction

$$\frac{1}{1 + \frac{1}{a_1 + \frac{1}{a_2 + \dots}}}$$

prove that $p_n = a_n p_{n-1} + p_{n-2}$.

Determine the limits of the error made by taking any convergent for the whole fraction.

Determine the 5th convergent to $\sqrt{65}$ and the limits of its error.

5. Apply Descartes' rule to reduce the solution of $x^4 - 6x^3 + 10x^2 - 3x - 2 = 0$ to that of a cubic.

Give the numerical value of the sum of the cubes of the roots of the biquadratic.

6. Prove that impossible roots enter equations by pairs.

If q be positive and greater than $\frac{(n-1)p^2}{2n}$, the equation

$x^n + px^{n-1} + qx^{n-2} + \dots = 0$, has impossible roots.

7. If two chords in a circle intersect one another, the rectangle contained by the segments of the one is equal to the rectangle contained by the segments of the other.

Deduce the corresponding theorem for the ellipse.

8. Explain the terms "inverse" and "polar reciprocal" in the theory of curves.

The inverse of a circle with respect to a point in the circumference is a straight line.

Tangents to a conic section are chords in the circle whose diameter is the latus rectum. Prove that the locus of their poles with respect to that circle is an equal circle.

9. Deduce the relation which exists between the sides and one angle of a spherical triangle; and from the expression obtain the corresponding expression for a plane triangle.

10. Prove that

$$\begin{vmatrix} b^2 c^2 d^2 & 1 & a & a(a-1) \\ c^2 d^2 a^2 & 1 & b & b(b-1) \\ d^2 a^2 b^2 & 1 & c & c(c-1) \\ a^2 b^2 c^2 & 1 & d & d(d-1) \end{vmatrix} = \begin{vmatrix} 1 & a^2 & a^3 & a^4 \\ 1 & b^2 & b^3 & b^4 \\ 1 & c^2 & c^3 & c^4 \\ 1 & d^2 & d^3 & d^4 \end{vmatrix}$$

and obtain the value of the determinant as a product.

Tuesday, April 16, 1878.—1 to 4 P.M.

1. Solve the equations $\sin x + \sin y = a$, $\sin 3x + \sin 3y = b$.

Find the values of x and y which satisfy the equations

$$\sin(x+y\sqrt{-1}) = a + b\sqrt{-1}.$$

2. If $l, m, n; l', m', n'$, are the direction cosines of two straight lines inclined to each other at an angle θ ; prove that

$$\cos \theta = ll' + mm' + nn', \text{ and } \sin^2 \theta = (mn' - m'n)^2 + (nl' - n'l)^2 + (lm' - l'm)^2.$$

3. Obtain the sub-contrary section of an oblique cone on a circular base.

Prove that the straight line which joins the vertex of the cone with the centre of the base, divides the diameter of the sub-contrary section into parts which are to one another as the squares of the sines of the greatest and least angles which a slant side of the cone makes with the plane of the base.

4. Prove that whatever be θ , the point whose co-ordinates are $x = a \cos \theta, y = b \sin \theta$ lies on a certain ellipse.

Investigate the geometric meaning of θ , and show that the equation of the chord joining the two points θ_1, θ_2 , is

$$x \cos \frac{\theta_1 + \theta_2}{2} + \frac{y}{b} \sin \frac{\theta_1 + \theta_2}{2} = \cos \frac{\theta_1 - \theta_2}{2}.$$

5. If two pairs of opposite edges of a tetrahedron be at right angles, the third pair will be also at right angles.

6. Find the equations of a plane and of an ellipsoid.

Every section of an ellipsoid is a curve of the second order.

7. If the value a of x render u and v both 0 or both ∞ , then for

$$\text{this value of } x, \frac{u}{v} = \frac{\frac{du}{dx}}{\frac{dv}{dx}}.$$

Find the limit of

$$\frac{\tan 2\theta - 2 \tan \theta}{\theta^3} \text{ when } \theta \text{ is indefinitely diminished.}$$

8. There can be no maximum or minimum value of u (Taylor's Theorem applying), except for such values of x as render $\frac{du}{dx} = 0$.

Prove that the volume of a sphere is to that of the greatest cone that can be cut out of it as $3^3 : 2^3$.

$$\begin{aligned} 9. \text{ Integrate (1.) } \frac{dx}{(a^2 + x^2)^2}; (2.) \frac{dx}{a + b \cos x}; (3.) \frac{dx}{(a + b \cos x)^2}; \\ (4.) \frac{\cos x - \sin x}{\cos 3x + \sin 3x} dx. \end{aligned}$$

10. Value $\int_0^{\infty} \frac{dx}{a^2 - x^2}$.

Find the sum of $\frac{1}{7} - \frac{1}{10} + \frac{1}{13} -$ etc. to infinity.

NATURAL PHILOSOPHY.

Wednesday, 17th April 1878—9 to 12 and 1 to 4 o'clock.

1. Describe an arrangement by which the lines of the solar spectrum may be seen through a telescope.

A rigid apparatus is constructed by which a pure spectrum of the light which enters by a slit is thrown on an opaque diaphragm; a narrow slit is cut in the diaphragm corresponding to a particular bright line of the spectrum of the solar prominences, and a convex lens is placed in front of the first slit, so as to form an image of the sun within the prism, the observer places his eye immediately behind the slit in the diaphragm; what will he see?

2. Give a statement of the different experimental means of producing colour, and distinguish between the physical circumstances under which colours result from refraction, diffraction, ordinary interference, and interference accompanied by polarisation, and from absorption.

3. What is the hodograph? Show that a finite arc of the hodograph represents the whole acceleration during the corresponding time. Prove that the hodograph of a planet or comet's motion is a circle.

4. Define Moment of Inertia. Find the moment of inertia of an ellipse about its minor axis, and also about a line parallel to the minor axis, and passing through one extremity of the major axis.

5. Define the term *Electric Image*. Find the images of

(a.) A straight line with uniform line-density.

(b.) A circular disc with uniform surface-density.

(c.) A sphere whose surface-density is inversely as the cube of the distance from a given point.

6. Calculate the attraction of a uniform circular disc upon a point in its axis. Hence find the attraction of a uniform Hemisphere on a point at its centre.

7. Investigate the equation of continuity, and from it derive that of the flux of heat in an isotropic solid.

8. Find the temperature at a given depth in an infinite isotropic solid whose bounding (plane) surface is subjected to a simple harmonic variation of temperature.

9. Form, and integrate completely, the equations of motion of a complex pendulum, consisting of masses of 3 and 5 lbs. respectively, attached to a string at 3 and 5 feet from its fixed extremity.

10. Assuming the equations of motion in the form

$$\frac{d}{dt} \left(\frac{dT}{d\theta} \right) - \frac{dT}{d\theta} = - \frac{dV}{d\theta}, \text{ etc.,}$$

apply them to the case of the ordinary conical pendulum, and work out the result when the disturbance is very small.

11. Give the second Law of Thermodynamics in any of its forms, and apply it to find the ultimate temperature of two equal masses, originally at t_1 and t_2 , when the whole available energy of the system has been made use of by perfect engines.

12. Investigate the relation between the pressure and volume of air when *suddenly* compressed or rarefied as in a Sound wave.

13. Prove by the principle of the conservation of energy that when an incompressible liquid escapes from an orifice the velocity is the same as would be acquired by falling from the free surface to the level of the orifice. A vessel in the form of a surface of revolution has a small aperture at its lowest point; determine the shape of the vessel so that the surface of the water contained in it may descend uniformly.

14. Point out the causes of the Equation of Time, and trace their effect throughout the year.

15. Determine the condition of equilibrium of a particle constrained to remain on a rough curve.

A rough wire in the form of an ellipse carries a bead and is made to revolve about its major axis placed vertically with uniform angular velocity, determine the least possible coefficient of friction that the bead may not slide in whatever position it be placed.

16. Find the velocity of a particle describing a conic section under the action of a force tending to the focus.

17. Form the equation for the propagation of a Sound wave in a cylindrical tube, and integrate it for the particular case of a *closed* organ-pipe.

18. Calculate the density at any point of a chain so that it may hang in a parabola.

19. Express in terms of simple harmonic functions a periodic quantity which has the value 1 from $t=0$ to $=\frac{\pi}{4}$, and the value

0 from $t=\frac{\pi}{4}$ to $=2\pi$.

20. Assuming Boyle's law, find the density of air at any depth in a *very* deep pit, the density of the earth being supposed uniform.

21. Find the equations of Current-lines and Equipotential lines in a uniform conducting surface.

How would these be modified by the assumption that the conductivity in one assigned direction is a maximum and double of that in the perpendicular direction?

22. Find the differential equation of the potential of a spherical distribution of matter or electricity, and give the interpretation of the left-hand member.

23. Find the acceleration under which a particle will describe a parabola,—the vertex being the centre of force.

24. Explain the analogy between the potential due to any electrification, the (steady) temperature in a conducting solid due to any sources of heat, and the illumination due to any sources of light. By means of

any of them shew that $\iint \frac{dV}{dn} ds = 4\pi E.$

II.—SCIENCE DEGREES.

FIRST EXAMINATION FOR B.Sc.

In Physical and Natural Sciences.

[NOTE.—For Questions in Mathematics and Natural Philosophy, see under Examination in Arts; and for Questions in Chemistry, Botany, and Zoology, see under First Professional Examination for Degrees in Medicine.]

In Public Health.

PHYSICS.

Friday, 19th October 1877.

Examiners—Professors FLEEMING JENKIN and TAIT.

1. Sketch a form of Water-Closet which you approve of—(a), for large houses; (b), for the poorer class of houses. Explain the defects of the ordinary Pan-Closets. The sketches are to be made clearly, and marks will be given for merit in the drawing, which should be an engineering sketch.

2. Explain the circumstances under which the gradual accumulation of air in a pipe will stop water from flowing through it.

Or, as an alternative question—

Explain why water will not rise in the service-pipes of houses to the same height during the day as during the night.

3. Why must traps be ventilated? Sketch a trap properly ventilated. Why cannot the ventilating pipes be made of small pipes, such as are used to convey gas?

4. What are the best methods of ventilating large rooms?

5. How can you gauge the flow of a stream? Give full details of the construction of the gauge, and the formula to be employed.

6. Explain the terms *Death-rate* and *Expectation of Life*. How are these calculated; and upon what does their value chiefly depend?

7. What is the reason for apprehending danger in a mine when the barometer falls suddenly? What is the best precaution against such danger?

8. What is the chief sanitary objection to the practice of scattering salt on the pavement when it is covered with ice or snow? Upon what physical fact does this objection depend?

Monday, 1st April 1878.—2 to 5 o'clock.

1. The head of water in a main is 100 feet above the main. What time will be required to fill a cistern of the capacity of 20 cubic feet, 70 feet above the main, through a 1-in. pipe 120 feet long—neglect resistance of the bends. If constants are not remembered, give the formulæ by which this time could be calculated.

2. Sketch a diagram showing what you consider proper connections for a system of house-pipes. The system to begin at the main sewer and main water-pipe, and to include a water-closet, a kitchen-sink, a bath, a washhandbasin, a tap for drinking water, and a boiler, all necessary traps, ventilating pipes, overflow pipes, and cisterns to be indicated. The relative sizes of the pipes, etc., and their actual positions need not be even approximately indicated—a diagram, not a drawing, is required.

3. If an opening existed from a street to a sewer, and a bad smell came up this opening from the sewer, what measures would usually be advisable?

4. Explain the relative merits and demerits of the Bramah, Jennings, and common pan closets. Show to what parts of each closet ventilating pipes should be attached. Explain why an overflow pipe is required in the Bramah closet, and what disadvantages attend its presence.

5. What do you consider the characteristics of good air? What proportion of CO_2 do you consider admissible in a sleeping room? What quantity of good air must be supplied per head per hour to maintain the proportion you consider proper?

6. Upon what physical principle does ventilation usually depend, and what are the most effective means of applying it on a very large scale?

7. How are the indications of the wet and dry bulb thermometers influenced by the amount of vapour in the air? What would be the immediate, and what the ultimate, effect of copious evaporation upon the pressure and density of the atmosphere?

8. State generally the nature of the process of diffusion of gases. If the oxygen and nitrogen of the air had been once uniformly mixed, what causes would have led to their partial separation, and how?

9. Describe the action of filters, so far as it is purely physical.

10. What is the sanitary objection to the practice of throwing salt upon ice-covered pavements, and what physical principle does it involve?

CHEMISTRY.

Friday, 19th October 1877.

1. You are required to report upon the air of a room; describe fully the methods of examination which you would employ.
2. What methods have been proposed for the detection of lard or other ordinary animal fat in butter? Criticise these methods.
3. What is the proportion of Oxygen to Nitrogen in the gases dissolved by pure water exposed to atmospheric air? Under what circumstances is the proportion of Oxygen to Nitrogen in the gases dissolved in natural waters different from this?

Monday, 1st April, 1878.—11 to 1 o'clock.

1. How would you examine a specimen of water supposed to be contaminated with coal gas?
2. How is the percentage of alcohol in a liquid such as beer or wine determined?
3. A specimen of air contains a small quantity of sulphurous acid gas: How can it be detected? and how can its quantity be determined?

SANITARY LAW.

Saturday, 20th October 1877.—11 to 1 o'clock.

(Two of the questions to be answered.)

1. Describe the leading provisions of the Vaccination Act.
2. What are the more important regulations in force for preventing the spread of contagious disease?
3. What steps require to be taken when a Local Authority refuses to adopt sanitary measures which have been recommended as essential?

Tuesday, 2d April 1878.—11 to 1 o'clock.

(All the questions to be answered.)

1. Give an opinion, supported by reasons, as to the propriety of continuing, or repealing, or extending, the Contagious Diseases Acts.
2. State what are the routine duties of a medical officer of health.
3. What are the leading provisions of the Alkali Works Acts?

VITAL STATISTICS.

(One question to be answered.)

1. What other facts besides death-rate require to be taken into consideration in forming an opinion as to whether a town is or is not in an insanitary condition?
2. (a) In which quinquennial period of life does the greatest mortality prevail?
(b) What are the chief diseases which lead to this mortality?

Tuesday, 2d April, 1878.—11 to 1 o'clock.

(All the questions to be answered.)

1. What data do you require to have, in order to enable you to estimate the healthiness of a community?
2. State approximately the mean annual mortality of the United Kingdom.
3. What should be the rate of mortality in a district where there are no unfavourable hygienic conditions.
4. What are the diseases, the prevalence of which it is most important to know, in order to determine whether or not the health of a district may be improved by hygienic measures?

SECOND EXAMINATION FOR B.Sc.

The Physical Experimental Sciences.

PHYSICS.

Specify precisely *what is meant* by each of the following terms, and describe fully one experimental method of determining its numerical value.

1. The *Wave-Length* of an assigned dark line in the solar spectrum.
2. The *Velocity of Sound* in water.
3. The *Thermal Conductivity* of a good conductor, such as copper.
4. The *Refractive Index* of a gas for any given ray.
5. The *Mean Density* of a planet, such as Jupiter.
6. The *Specific Heats* of air.

The units in terms of which the determination are made must be carefully pointed out.

CHEMISTRY.

Monday, 1st April 1878.—11 to 1 o'clock.

1. Enumerate and classify the metallic oxides having the general formula MO_2 .
2. Give a classification of the silicates with examples.
3. What metallic salts form compounds with ammonia? What constitution has been proposed for these bodies?
4. Explain without any reference to theory, the meaning of the prefixes, ortho-, para-, and meta-, as applied to substitution products of benzol.
5. How is nitrogen determined in organic bodies?

The Natural Sciences.

**GEOLOGY, INCLUDING MINERALOGY AND
PALÆONTOLOGY.**

Monday, 22d October 1877.

1. Describe the formation of vegetable Soil, and show how it is connected with the subaerial denudation of the land.

2. Explain the geological phenomena of Lakes, and illustrate the answer by reference to evidence of lacustrine areas in geological history.

3. Enumerate the various kinds of evidence which show that Britain has been extensively glaciated.

4. How is the Internal Heat of the Earth proved? Sketch the general effects of this heat upon the surface of the planet.

5. Give an account of Volcanic action, and show from the history of that action in the British area whether any evidence can be adduced as to former greater intensity of the volcanic forces.

6. Give the mineralogical characters of Orthoclase, Natrolite, Hypersothene, Biotite, Talc, Calcite, Celestine, Marcasite, Malachite, and give some of the characteristic habitats of each mineral.

7. Give the petrographical characters and geological history of Phonolite, Quartz-trachyte, Fireclay, Cornstone, Felstone, Diabase-tuff, Gneiss, Blackband Ironstone, Carrara Marble, Clay-slate, Granite, Peat.

8. Make a Table of the Jurassic system of Great Britain, and place opposite to each subdivision a list of its characteristic fossils.

9. Refer the following fossils to their respective families, and give their geological range :—*Sphenopteris gracilis*, *Neuropteris Loshii*, *Oldhamia antiqua*, *Anodonta Jukesii*, *Orthis caligramma*, *Bellerophon Urei*, *Leperditia Murchisoniana*, *Cocosteus cuspidatus*, *Isastræa Conybeari*, *Lepidotus Mantelli*, *Machairodus latidens*, *Ichthyosaurus campylodon*, *Ovibos moschatus*, *Mastodon Arvernensis*.

10. Describe three Coral-reefs among the geological formations of the British Islands.

11. What is a Trilobite? Enumerate the characters of six genera of trilobites, and give their general geological range.

12. Describe the Triassic Flora of Britain.

13. What typical fossils would enable you to identify each of the following Formations :—Wenlock Limestone, Gault, Marlstone, and London Clay?

14. If three rocks were put before you, one containing *Nidulites savus*, *Meristella angustifrons*, and *Holopella tenuicincta*; the second containing *Productus semireticulatus*, *Spirifer striatus*, *Lithostrotion junceum*, and *Poteriocrinus granulosus*; the third containing *Ostræa gregaria*, *Ammonites perarmatus*, *Cidaris coronata*, and *Thamnastræa arachnoides*; to what geological horizons respectively would you refer them?

15. Draw a Horizontal Section to show the general stratigraphical relations of the Palæozoic, Secondary, and Tertiary formations in Britain.

16. Name and describe at least three-fourths of the specimens placed before you.

2nd April 1878.

1. Give an account of the present state of our knowledge regarding the internal temperature of the earth.

2. Summarise the recent additions to our knowledge of the condition of the ocean-floor.

3. What evidence can be adduced to prove that an Arctic climate once spread southwards into Central Europe?

4. Describe and contrast atmospheric and marine denudation.

5. What various kinds of evidence may be adduced to prove former volcanic activity in a region now devoid of volcanoes?

6. Give the mineralogical characters of Selenite, Celestine, Vivianite, Calcedony, Orthoclase, Pyroxene, Nepheline, Apatite, Analcime, and Aragonite; and mention some of the usual habitats of each mineral.

7. Give the petrographical characters and geological history of Liparite, Trachyte, Basalt-tuff, Diorite, Gneiss, Marble, Flinty-slate, Anthracite, Peat and Encrinal limestone.

8. Make a table of the Tertiary formations of Britain, and place names of characteristic fossils opposite each sub-division.

9. Describe the Palaeozoic rocks of Britain older than the Silurian system.

10. Give the palæontological characters of the following genera :—*Bakewellia*, *Productus*, *Iguanodon*, *Leperditia*, *Cyclopteris*, *Lituities*, *Eurynotus*, *Equus*, and *Calamodendron*.

11. Refer the following species to their respective families, and give their geological range :—*Voluta ambigua*, *Trigonia costata*, *Paradoxides Davidis*, *Atrypa reticularis*, *Diplopterus borealis*, *Ursus spelæus*, *Sphenopteris bifida*, *Sequoia Langsdorfii*, and *Nipadites ellipticus*.

12. Give an account of the Devonian and Old Red Sandstone rocks of Britain, contrast their organic remains, and state the probable physical conditions under which they seem respectively to have been deposited.

13. Assign to their true geological horizons three pieces of rock containing the following fossils :—

(A.) *Plutonina Sedgwickii*, *Lingulella primaeva*, *Conocoryphe Lyellii*.

(B.) *Productus giganteus*, *Archæocidaris Urci*, *Psammodus porosus*.

(C.) *Petrophiloides Richardsons*, *Nautilus centralis* and *Belosepia sepioidea*.

14. Draw a geological section across England and Wales from Anglesea to Hastings.

15. Name and describe three-fourths of the specimens placed before you.

BOTANY.

Saturday, 20th October 1877—11 to 1 o'clock.

1. In what different modes may the so-called Laticiferous vessels originate? Give examples. Value of complete answer, 10

2. What is the difference in the mode of development betwixt the primary meristem of a shoot of most Cryptogams and that of Phanerogams? 10

3. Describe in detail the structure of the perfect Ovule in an ordinary Angiosperm, before fertilisation; trace the changes which occur after fertilisation, and describe the development of the embryo,	20
4. Wherein do the Ophioglossaceæ differ from Filices?	10
5. Describe the Organs of reproduction and the embryogenic process in Selaginella; point out wherein it resembles and differs from the process in Angiosperms,	20
6. What are the more important effects, chemical and mechanical, of the action of light on plants?	10
7. Mention in succession the species of Saxifrage observed in ascending the highest Scottish mountains; giving the altitude at which each might be expected,	20
Total value of complete answers,	100

Monday, 1st and Tuesday, 2d April.

1. Describe the flower of Canna. How does it differ from that of Zingiber?
2. Give an account of two views which have been advanced to interpret the structure of the male and female organs of Coniferous plants.
3. Describe the phenomena of Heteræcism (*Heteræcium*) and illustrate by an example in detail.
4. In what groups does Darwin arrange climbing plants? Give some of the more important results of his experiments.
5. What are the different kinds of carnivorous plants? How do they perform their functions?
6. Point out some of the main features of difference between the flora of the east and west of Scotland.
7. What is the distribution in the British Islands of the following plants:—*Naias flexilis*, *Lychnis alpina*, *Erica ciliaris*, *Dabeocia polifolia*, *Eriocaulon septangulare*, *Pinguicula grandiflora*, *Salix Sadleri*, *Phyllodoce cœrulea*, *Saxifraga cernua*, *Oxytropis campestris*.
8. Give the types of Reproduction in the vegetable kingdom.

PHYSIOLOGY.

Friday, 19th October 1877.

1. Describe the minute structure of Grey and of White Nerve Fibres and that of Nerve Cells. What are the functions of nerve fibres and nerve cells? How can they be stimulated to action? What are the results of the transmission of nervous impulses through (a) efferent, and (b) afferent nerves?
2. Describe the minute structure of the Kidney, and the process of renal secretion. What is known regarding the sources of the several constituents of the Urine? What quantities of the different substances are excreted daily, and what circumstances affect their amount?

3. Give a general account of the process of Respiration, and of the means by which it is effected throughout the animal kingdom.

April 1878..

1. Describe the structure, chemical composition, and functions of the blood corpuscles of vertebrates.

2. What substances are contained in the saliva, gastric, intestinal, and pancreatic juices, and bile? What are the effects of these various secretions upon the food?

3. Give an account of the principal facts relating to the temperature of animals.

ZOOLOGY.

Friday, 19th October 1877.

1. Describe the pelvic arch of (a) a Cat, (b) a Kangaroo, and (c) a barn-door Fowl.

2. What is the nature of the so-called "winter eggs" of *Daphnia*, and in what position and under what circumstances are they produced?

3. Describe the structure of one of the Polyzoa (Bryozoa); state the zoological position which you would assign to the group, and your reasons.

4. Give a generally accepted classification of the *Insecta*, with the leading characters of the Orders.

5. State the general characters and the affinities of the *Cirripedia*.

Monday, 1st April 1878.—2 to 5 o'clock.

1. Describe in detail the structure of Distoma, and give an account of the life history of one of the Trematodes.

2. Describe the phenomena of the Segmentation of the Yolk, and of the earlier stages of the development of the embryo in the Cephalopoda. What is a Hecticotylus? Describe its structure and origin.

3. Describe the changes which take place during the metamorphosis of a tadpole into a frog.

4. Describe in detail the alimentary canal of the common fowl. Giving the position, the condition, and the function of the associated glands.

Engineering.

MATHEMATICS APPLIED TO MECHANICS.

1. Define the Hodograph of an orbit; and find its equation in the particular cases—

$$(a.) \quad r = \frac{b}{1 + e \cos \theta} . \qquad (b.) \quad r = a \cos \theta .$$

the condition $r^2 \frac{d\theta}{dt} = n$ being imposed in each.

2. Find the resultant of two uniform circular motions in one plane, when the radii are nearly equal, and the angular velocities opposite but nearly equal.

3. Show how to find the curve in which a given chain will hang. *Ex.* Let the density at any point be as the product of its distances from the ends.

4. If two equal masses be attached to a string at one-third and two-thirds of its length; find the position of equilibrium when the ends are fixed at *any* given points. Find the number of degrees of freedom of the system, and the times of its small oscillations.

5. A given impulse is applied to a free rigid body at rest. Show how to find the instantaneous axis.

6. Investigate the pressure at any depth in a free mass of homogeneous incompressible gravitating liquid. Find it in pounds per square inch if the density be that of water, and the volume that of the earth. [Earth's mean density 5.5, and weight of cubic foot of water, 64 lbs.]

7. Find the rate of propagation of a *Long Wave*.

ENGINEERING.

1st April.—11 to 1 o'clock.

1. Two open reservoirs, A and B, in which water is at rest, are joined by a long straight pipe which enters each 10 feet below the level of the water in the reservoir. The level of the water in A is 50 feet, and that in B 10 feet, above a datum line. What will be approximately the free level of the water in the pipe half-way between AB? By free level is meant the head in feet relatively to the datum line. Explain what data would be required to enable you to calculate the free level with greater accuracy, and how you employ these facts.

2. Sketch the hydraulic gradient for the above system, if in the pipe there were two valves, each one-third of the distance from one end, and show how this hydraulic gradient must be modified if twice the quantity of water flows through the pipe; the free level in A remaining constant. Absolute figures are not required, but the relative falls in the hydraulic gradient must be correctly given.

3. A vertical retaining wall is used to keep back fresh water, which is put level with its upper surface. The thickness of the wall is 3 feet, and the material of which it is made weighs 125 lbs. the cubic foot. How deep may the water safely be behind this wall?

4. A locomotive weighing 30 tons is going round a curve of 8 chains radius at 30 miles per hour. The centre of gravity is 8 feet above the rails, which are 5 feet apart, give the forces on each rail in direction and magnitude; (1) supposing that the cant is exactly suited to the case; (2) supposing there is no cant.

5. A square balk of timber 20 feet long, of uniform cross section, is being lifted by a rope attached 20 feet from the end which rests on the ground. The balk is inclined 45° and the rope 30° to the horizon.

Which will be the direction and magnitude of the pressure against the heel of the balk which the earth or other support will have to meet?

6. In the case of a circular arch ring 50 feet diameter and 3 feet deep, neglecting the weight of the voussoirs, will the horizontal thrust be greater when the load is at the centre, or when 12.5 feet from one end? Give the proof. In each case the joint of rupture is to be taken as low as is consistent with stability.

7. What constant couple must I apply to accelerate a disc of cast-iron 5 feet diameter, 1 foot broad, from 2 revolutions per second to 3 revolutions per second, while moving through half a turn?

8. Let the same disc be swinging round a point 1 foot from its centre. Can I stop it by a single force without altering the pressure on its bearings? If so, where must the force be applied? Can I stop this disc by a single force without altering the pressure on its bearings if it were rotating round an axis passing through its centre?

9. A horizontal lever 6 feet long is supported on bearings 3 inches diameter 2 feet from one end; 6 inches from each end a rope is attached by pins and eyes 2 inches diameter. The weight of the lever is 36 lbs. uniformly distributed. A weight of 50 lbs., including that of the rope and its attachment, hangs from the shorter end. What force, including the weight of the rope and attachments, will be required to keep the 50 lbs. in motion if it has previously been moving?

1st April 1878.—2 to 5 o'clock.


1. Explain the condensation which takes place when saturated steam is expanded in the unjacketed cylinder of a steam-engine. State how you would calculate the quantity of water which would be thus condensed.

2. Does a regenerator make an air-engine more efficient as a heat-engine? If so, in what way?

3. In a plate girder 100 feet span, and of constant depth 8 feet. The upper boom is uniformly strained from end to end. The intensity of the stress is 4 tons per square inch. There is also a uniform stress of 5 tons per square inch along the bottom boom. If E is constant and equal to 12,000 (tons and inches), what is the deflection?

4. What cross section would you give the flanges of a wrought-iron girder 50 feet span to bear safely a load of 1 ton per foot run. Give the section for the centre of the beam and for a point 10 feet from one end.

5. Give the bending moments and shearing stress for the same points if, in addition to the above load, a weight of 10 tons is applied 10 feet from one end.

6. Give the reciprocal figure for a Warren girder of six equilateral triangles,  having their bases arranged to form the bottom boom, and their apices joined by five bars to form the upper boom. The load consists of 60 tons uniformly distributed on the lower boom, and 20 tons $\frac{2}{3}$ th of the span from the right hand pier.

7. Show how you would find the arc of contact for two epicycloidal wheels, the dimensions of the teeth and the pitch circles being known.

8. Is a joint made in boiler plates with a double covering plate and chain rivetting stronger than a lap-joint chain rivetted; and if so, why?

9. Explain the terms fully—gear, half-gear, mid-gear—as applied to the distribution of steam by link motion. Sketch an elliptical diagram showing the distribution of steam in full gear, half-gear, and mid-gear. Mark the points of preadmission; cut off release and compression for one side of the piston and one revolution of the crank.

10. Why do spring tides rise higher than neap tides?

11. What is the waste weir of a waterworks reservoir, and how do you determine its dimensions?

12. Why is the rainfall greater in mountainous countries facing the ocean than in flat countries facing the ocean?

13. If a pipe is carried across a valley on arches, will the pressure on these arches increase when water is led through the pipe from a reservoir at a higher level than the arches, so as to put the pipe under pressure?

14. Describe the permanent adjustments of a theodolite.

15. State what are the different steps that require to be taken in making an extensive marine survey of a river or harbour, and how would you carry them out?

16. How does a telescope enable you to see distant objects more distinctly than with the naked eye?

17. What are the causes which reduce the theoretical velocity due to the head in water passing through a pipe?

EXAMINATION FOR D.Sc.

PHYSIOLOGY.

November 1877.

MORNING.

1. Give a full account of the Pulse Wave.

2. Describe the minute structure of the various peripheral endorgans of sensory nerves.

3. State and criticise the arguments for and against the theory that the spinal cord is a seat of sensation.

AFTERNOON.

1. Describe the development of the eye, face, mouth, male and female genito-urinary organs.

2. Give an account of all the facts in nerve physiology capable of demonstration with the aid of suitable apparatus, and of a frog's sciatic nerve removed from the spinal cord, and detached in some cases, but attached in others, to the muscles of the leg. Describe briefly the various experiments necessary for the demonstration.

PHYSICS.

April 1877.

Other Papers not Printed.

1. Express, in the form of a definite integral, the density of electrification induced on an uninsulated conducting sphere by a uniformly electrified *non*-conducting sphere placed inside it. Then determine the value of the definite integral by the consideration that the non-conducting sphere acts as if its charge were condensed at the centre.

2. Given the equation for the temperature (v) of a bar

$$\frac{dv}{dt} = k \frac{d^2v}{dx^2} - hv,$$

(where k and h are supposed constant) investigate the state of the bar at any point after the end ($x=0$) has been kept for a long time heated to 100° and cooled to 0° during alternate intervals of 15^m .

3. By means of Lagrange's generalised equations investigate the motion of a cone rolling, without sliding, on an inclined plane.

4. Find the density of a sphere in terms of the distance from its centre so that, if any cylindrical hole be bored through it, the quantity of matter removed shall be proportional to the *section* of the cylinder.

5. Find the surfaces of equal action for jets of water squirted in all directions with equal velocities from one point.

6. Investigate fully the motion of a stretched string which was disturbed initially by being drawn aside *at its middle point*, and released.

7. Find the form of the current-lines and equipotentials in an infinite plate, two points of which are kept at potential 1, and two others, forming with the first two the corners of a square, at potential 0.

MORAL PHILOSOPHY.

Thursday, 18th April 1878.—I to 4 P.M.

1. Trace and critically examine the doctrine of knowledge as bearing on morals developed in ancient Ethics. Support by distinct references.

2. What account can be given of the treatment of the Will problem in the systems of Socrates, Plato, and Aristotle? Take note of implied references as well as formally expressed positions.

3. Write a short Essay on the influence of the social and civil life of Greece on the progress of philosophic thought in the country.

4. Trace the sources of divergence represented in the Epicurean and Stoic schools. Estimate the Ethical value of both schools, taking account of merits and demerits.

5. State concisely the successive phases of the necessitarian or determinist theory of Will, giving the historical relations in which they were developed. Mark and comment upon distinct modifications.

6. Write a short Essay upon Spontaneous restraint on the activities of human life, and its influence on individual and social history.

7. After a brief sketch of Hume's position, consider carefully his influence on the history of ethical philosophy.

8. Restricting attention to the period beginning with Locke and closing with Hegel, consider carefully how Kant was influenced by preceding thought, and what influence he exerted over subsequent thought so far as ethical philosophy is concerned.

FALCONER FELLOWSHIP.

GEOLOGY AND PALÆONTOLOGY.

Monday, 15th April 1878—11 to 1 o'clock.

1. Give a sketch of the rise and progress of Palæontology.
2. Describe the processes of "Fossilization."
3. In what various ways are Fossils of importance in geological research?
4. Give an outline of Forbes' explanation of the geological relations of the present Flora of the British Isles.
5. Sum up the arguments for and against the organic origin of Eozoon.
6. Give an account of the present state of our knowledge regarding the Cambrian Fauna of Britain.
7. Describe the genus *Productus*; give the leading characters of some of its more marked species, and state their geological range.
8. Give the zoological position and geological range of the following genera:—*Bos*, *Lingulella*, *Microlestes*, *Estheria*, *Asaphus*, *Hybodus*, *Lithostrotron*, *Spirorbis*, *Crania*, *Ceteosaurus*, *Pupa*, *Globigerina*.
9. To what geological horizon would you assign a rock containing the following fossils—*Cristellaria rotulata*, *Terebratula carnea*, *Inoceramus Lamarckii*, and *Belemnitella mucronata*?
10. Would you expect to find the following genera together *in situ*—*Ananchytes ovatus*, *Ammonites Jason*, *Pecten Islandicus*, *Rhynchonella tetrahedra*, *Calymene Blumenbachii*, *Atrypa reticularis*, *Terebratula hastata*, *Sphenopteris bifida*, *Lycopodites Milleri*, *Pterophyllum compactum*? Give a reason in each case for your answer.

NATURAL HISTORY.

15th April, 2 to 5 o'clock.

1. Describe the structure of the genus *Nummulina*, and contrast it with that of *Orbitolites*.
2. Give the characters and general structure of the hexactinellid sponges. Mention the groups of fossils to which they are most nearly allied. Sketch their geographical distribution. What do we know of the range of the group in time?
3. Name one or two genera of operculate corals, and state what you know of their structure and affinities.
4. Give the characters of the following families—*Diadematida*, *Galeri-*

tida, Dysastrida, Clypeastrida, Cassidulida, and Spatangida. Indicate their geographical distribution and their range in time.

5. Give an outline of the classification of the Cephalopoda, recent and fossil, with the characters of the principal groups.

6. Describe in detail the structure of one of the Crossopterygida among Ganoid fishes. Name some of the most characteristic genera of the family, and give their range in time.

7. Give an account of the vertebrate fauna of the cretaceous formations of North America.

BOTANY.

16th April 1878.—11 to 1 o'clock.

1. Mention a few of the fossil plants which characterise the deposits before the carboniferous epoch.

2. Give the characters of the genus *Ulodendron* and state in what respect it is allied to the vegetation of the present day.

3. Give an account of the Miocene Arctic Flora, and point out its affinities with the Flora of the present day.

4. Describe the fossil genus *Pothocites*, and give its supposed affinities.

5. Describe the genus *Sternbergia*, and mention its supposed affinities.

6. Mention the plants which characterise the Permian epoch.

7. Mention some of the natural orders of plants which characterise the Eocene Flora of Europe.

8. Describe the following fruits, and mention their supposed affinities :—*Trigonocarpon*, *Cycadostrobus*, *Araucarioxylon*.

PRACTICAL EXAMINATION.

I. PALÆONTOLOGY.

April 1878.

Determination of a suite of typical fossils from Palæozoic, Secondary and Tertiary Strata.

II. NATURAL HISTORY.

Give an account of the specimens 1, 2, 3, 4, and 5. State their zoological position, their geographical distribution, and the fossil forms to which they are most nearly related, with the distribution of these in time. The species were :—1. *Terebratula* cranium ; 2. *Serolis* sp. ; 3. *Apus productus* ; 4. *Hyalonema* sp. ; 5. *Pentacrinus* sp.

III. BOTANY.

Practical Examinations on specimen of fossil plants, and on Microspect Preparations of these plants, and on fresh plants, allied to those found in a fossil state.

III.—DEGREES IN DIVINITY—DEGREE OF B.D.

APOLOGETIC THEOLOGY.

Monday, 8th April 1878—2 to 5 o'clock.

THEISM.

1. What has been said, or may be said, for and against the hypothesis that the universe is eternal and infinite?

What bearing has the hypothesis on theism?

2. State and examine the grounds on which the possibility and reality of creation *ex nihilo* have been denied.

3. State Kant's objections to the Ontological, Cosmological, and Physico-Theological proofs of the Divine Existence.

4. Examine his objections.

5. Point out what is true and what is erroneous in the traditive theory of the origin and diffusion of theism.

ANTITHEISTIC THEORIES.

1. Classify and describe the chief forms of Polytheism.

2. Indicate how the various forms of Polytheism affect the individual mind and the character of the community?

3. What are the chief objections to Pantheism?

4. If the doctrine of the relativity of knowledge be true, must the theory of Positivism be accepted? Is the doctrine true? Give reasons for your answers.

PROPHECY.

1. What is prophecy? What are the chief mistakes which have been made as to its nature?

2. How does prophecy as prediction agree with, and differ from, miracle?

3. Discuss and comment on these propositions :—

(a) Messianic predictions have higher evidential value than any other predictions in Scripture, because they constitute a system, and because their evidential worth is independent of the results of critical investigations into the age or authorship of the books of the Old Testament.

(b) Messianic prophecy does not consist merely of definite verbal predictions, but of everything in the Old Testament which foreshadowed Christ and found its realisation in him.

(c) It is probable that no more than a typical correspondence between certain parts of Christ's life and certain portions of Scripture is, in several instances, intended to be pointed out by the expression, "That the Scripture might be fulfilled."

4. Have you any criticism to offer on the following passage?—"An interpretation of Scripture, whereby what may be called a second sense

was attributed to it, arose and prevailed at the time when Jesus appeared, and as a consequence it enabled the first Christians to accept him as the Messiah. His disciples collected from the ancient Scriptures all that they found most beautiful and noble in them, divested it of the elements which were unsuited to their purpose, formed of it one whole, which they presented as the fulfilment of what the former generations had expected."

5. Remark on the prophecies respecting Tyre, Nineveh, Babylon, and the Chaldean, Medo-Persian, Grecian, and Roman Empires.

SYSTEMATIC THEOLOGY.

Wednesday, 10th April 1878—10 to 1 o'clock.

DIVINE ATTRIBUTES.

1. Remark on the propositions :—

- (a) It is impossible to frame a true doctrine of the Divine nature or essence apart from a doctrine of the Divine Attributes.
- (b) The Divine Attributes are not merely human modes of apprehending God which have nothing objective corresponding to them in God Himself.

2. How have the Divine attributes been classified? Which classification seems to you the best?

3. Explain the distinction between *potentia absoluta* and *potentia ordinata*, and consider the objections which have been urged against it.

4. What was meant by *Scientia Media*? Is the hypothesis of a *Scientia Media* well founded?

5. State the grounds on which you would maintain that God is personal and spiritual.

PREDESTINATION.

1. Must God have had from eternity a definite plan in relation to all His works? Give reasons for your answer.

2. State the objections which have been urged to the doctrine of unconditional decrees.

3. State the objections which have been urged to the doctrine of conditional decrees.

4. Give an account of the Supralapsarian, Sublapsarian, Arminian, and Salmurian theories of predestination.

5. What is the New Testament usage of the words προγινώσκω, πρόγνωσις, ἐκλέγω, and ἐκλογή?

SIN.

1. Give the exact force of the expressions used to denote sin in the Old Testament. Compare the Old Testament conception of evil with what we find in the various systems of Nature-religion.

2. What is St Paul's doctrine (a) as to the nature or seat of sin (b), as to its effects or consequences?

3. Discuss the following objections to the doctrine of Native Depravity :—

- (a) Our first parents sinned without any pre-existing sinful bias, why may not we so sin?
- (b) Man's sinfulness may be sufficiently accounted for by one or more of these causes.

- a. The freedom of his will ;

- β. The influence of evil example ;

- γ. The general constitution and state of the world into which he is born ;

- δ. The ascendancy in early years of the inferior and animal propensities over his intellectual and moral powers.

4. Explain what is meant by "Imputation of the guilt of Adam's Sin." Distinguish between "Mediate" and "Immediate," Imputation. Explain also the terms *Reatus poenæ* and *Reatus culpæ*.

5. Examine the statements :—

- (a) "How slender is the foundation in the New Testament for the doctrine of Adam's sin being imputed to his posterity! —two passages in St Paul at most, and these of uncertain interpretation."

- (b) "Adam's sin is ours, not because it is imputed to us, but it is imputed to us because it is truly and properly our own."

CHURCH HISTORY.

9th April 1878.

1. What is the attitude of Justin Martyr as an apologist towards heathen philosophy?

2. When and under which Roman Emperors occurred the chief persecutions of Christians in the Empire between 200 and 250? What was the result in the Church's condition?

3. What new feature marked the Decian persecution, and what that of Diocletian?

4. Under whom did Christianity become a "religio licita?"

5. Distinguish Modalistic from Dynamistic Monarchianism, and give the names of some of the chief supporters of each.

6. Sketch the rise, progress, and doctrines of Montanism, giving approximate dates. What do you think was the cause of its rise?

7. Give an outline of Manichæism.

8. Contrast the School of Antioch with the old and new schools of Alexandria, and give some leading names representative of each.

9. What was the doctrine of Apollinaris as to the person of Christ and what Council condemned it?

10. Give the dates of the Massacre of St. Bartholomew, the Council of Trent, and the Spanish Armada.

11. Name the authors of the Heidelberg Catechism and Augsburg Confession.

12. How would you show that a favourable feeling existed among the Scottish Nobles towards the Reformation at the time of the death of James V.?

13. In what respect was Knox's position towards the Roman Catholic Church in Scotland an advance on that of his predecessors?

14. Give the dates of the First General Assembly of the Church of Scotland, of the "First Covenant," and of the decision of the Scotch Parliament in favour of the Reformation.

15. What led to the First Book of Discipline? Give its date and its authors, and state how far it was approved by the civil authority.

16. Give the four chief provisions of the "Black Acts" of 1584.

HEBREW.

9th April 1878.

1. (a.) Translate Deut. ix. 1-4.

וידעת, ויתיצב, ועצמים, לרשת, לבא, עבר, שמע
בהרדו, והאבדתם, והורשתם, יבניעם, ישמירם, אכלה,
מורישם, הביאני.

(β.) Translate Psalm xiii.

Parse the verbs in it.

Give the usual meaning of יומם, and the special import of

אשירה and יגל.

(γ.) Translate Isaiah ix. 1-4.

ונלכה, ונעלה, והוכיח, ויורנו, לכו, נשא, נכון,
לאתים, הרבוכם, וכתתו, תצא, בארחתי.

2. (a.) אב, Father: write father of, thy father, his father, our father, your father, fathers of, their fathers.

(β.) מִשֵּׁל Rule: write, he will rule, he will not rule; let him rule, let him not rule; I will rule, I will not rule; let me rule, let me not rule.

(γ.) Translate Deut. vi. 1.

Parse and analyse syntactically in it לעשות, ללמד and
אשר, אתם, עבדים, שמה, לרשתה:

3. Translate into Hebrew :—

And now Israel, what does Jehovah thy God ask except to fear Jehovah thy God, to go in all his ways, and to love him, and to serve Jehovah thy God with all thy heart, and with all thy soul, to observe the commandments of Jehovah, and his statutes which I command thee to-day for good to thee.

BIBLICAL CRITICISM AND BIBLICAL ANTIQUITIES.

Wednesday, 10th April 1878.

1. Examine the evidence for and against τοῦ μυστηρίου τοῦ Θεοῦ καὶ πατρὸς καὶ τοῦ Χριστοῦ,—especially noting the principles on which τοῦ Θεοῦ Χριστοῦ is favoured by many.

2. In Galatians iii. 11—

ὅτι δὲ ἐν νόμῳ οὐδεὶς δικαιοῦται παρὰ τῷ Θεῷ δῆλον ὅτι ὁ δίκαιος ἐκ πίστεως ζήσεται.

Give various translations of the latter part, and support one by arguments.

3. Distinguish between the Judaizers of Galatians and Colossians.

4. In Colossians ii. 2.—*ἵνα παρακληθῶσιν αἱ καρδίαι αὐτῶν συμβιβασθέντες ἐν ἀγάπῃ*, which is Tischendorf's text, is said by him in his note to be supported by \aleph^* ABCD* E* P. Syr (Pesch.), Arm, &c., while *συμβιβασθέντων* is supported by \aleph^c D^c E** KL, and several fathers. Give an account of these MSS., especially CDEKL, distinguishing, when necessary, between those cited and other MSS. of the same name which may be cited for other portions of the New Testament.

5. On what grounds does Baur refer "Colossians" to a date in the second century? Examine those grounds, pointing out especially the sources from which Gnostic ideas had come into circulation before Valentinus. In the same connection examine the use of *αἰῶν* in the Epistle.

6. The Egyptian or Coptic Versions. State what you know of them.

7. The Old Latin, Armenian, and Gothic Versions: their age, value, and testimony to the Canon.

8. Ignatius—What writings bear his name? How far genuine? State the bearing of the relations of those writings to the writings of Paul and John on the questions (1) of the genuineness of the Ignatian writings themselves; (2) of the age of the writings ascribed to Paul and John in the New Testament (taking care not to reason in a circle).

9. The Apostolic Fathers. Give their names, their surviving works, the proximate date of those works, and the nature and value in each case of the testimony to the Canon. [You may refer to your answer to the previous question so far as it goes.]

IV.—DEGREES IN LAW.

EXAMINATION FOR DEGREES OF LL.B.

I. CIVIL LAW.

i.

Monday, 25th June 1877.—10 to 12.30 o'clock.

1. Into what great periods is the history of Roman Law usually divided, and what are the leading characteristics of each of these periods?
2. Enumerate the chief Antejustinianean legal compilations and codes.
3. Mention the principal sources of law, from the earliest period of Roman history down to the reign of Justinian.
4. What were the functions of the Roman prætor? When and why was the office instituted? Was it tenable by plebeians?
5. Explain the meaning of the terms *jus civile*, *jus honorarium*, *jus gentium*, and *edictum perpetuum*.
6. Mention briefly the leading provisions of the Lex Canuleia, the Licinian Rogations, the Lex Hortensia, the Lex Falcidia, and the Lex Ælia Sentia.
7. What were the most important epochs in the history of the Law of Succession, and what were the leading characteristics of each.
8. Of what different parts did the prætorian *formula* consist? In what respect did the *formula in jus concepta* differ from one *in factum concepta*?
9. When were the Institutes of Gaius and the Institutes of Justinian respectively published? In what respects did the two works resemble each other, and in what respects did they differ?
10. Define a jural *persona*. State whether an infant Roman citizen, a captive Roman citizen, a Roman citizen condemned *ad metalla*, and a *dedititius* respectively, were properly, or to any extent, *personæ*.
11. Under what circumstances could a man marry without his father's consent?
12. What were the component elements of complete Roman citizenship?
13. Was the *civitas* of a *filiusfamilias* restricted to any extent?

ii.

Monday, 25th June 1877.—1.30 to 4 o'clock.

14. A boy of fifteen purchases a horse at an exorbitant price, and the horse is accidentally killed next day. Has the boy any redress? and, if so, to what extent, and within what period must it be sought for?
15. State briefly the history and the meaning of the term *longi*

temporis præscriptio. In what respects did its operation differ from that of *usucapio*?

16. In accordance with what general rule was the amount of diligence prestable by a party to a contract determined? Were there any exceptions to the general rule?

17. State briefly what you know of the *Lex Aquilia*.

18. What were the essential points to be attended to in the execution of a Roman will, both as to its form and its substance?

19. What is meant by the terms—*hæredes necessarii*, *hæredes sui et necessarii*, and *hæredes extranei* respectively? In what respects did the position of these heirs differ on the opening of the succession? In favour of what heirs were the *beneficium abstinendi* and the *beneficium deliberandi* introduced?

20. What is meant by a *rei vindicatio* and an *actio Publiciana* respectively? To whom and against whom were these actions competent?

21. In what cases was the property claimed removed temporarily from the operation of the *rei vindicatio*?

22. What is meant by the *omnis causa rei*, and what does it embrace?

23. What was a *verborum obligatio*, and what persons could effectually contract such an obligation?

24. In what cases could a father and a master respectively be bound by his *filiusfamilias* and his slave?

25. How were *verborum obligationes* dissolved? Mention one or more cases in which one of several persons bound was released from the obligation, while the obligation itself continued to subsist to its full extent as regarded the others.

II. SCOTS LAW.

Wednesday, 27th June 1877.

i.

1. Has a wife, who has not obtained an order of protection, any right to property acquired during the subsistence of the marriage by her own industry or by gift or succession?

2. What are the patrimonial effects of a decree of Divorce *a vinculo matrimonii*?

3. Explain the meaning of the maxim, *pater est quem nuptiæ demonstrant*, and the limits of its application.

4. What power has a father over his child's separate property?

5. What rights have children in their father's estate, heritable and moveable, when he has died intestate, and was predeceased by his wife?

6. Explain the law of *collatio bonorum inter liberos*.

7. What controlling powers has a curator over a minor's estate?

8. Can a domiciled Scotsman who, while living abroad, has had illegitimate issue born abroad of a foreign mother, legitimate that issue in Scotland?

9. What are the mutual rights and obligations of a bastard and his parents?

10. What are the rights of a person engaged to serve a partnership, for a period of years, when the partnership is dissolved by the death of a partner, and the business is given up?

11. What exceptions are there to the rule that a master is liable in damages to a servant injured in his employment?

12. Is a person who is or has been insane entitled to make a will?

ii.

1. What are the rights and duties of an agricultural tenant at the termination of his lease?

2. How may a right to the foreshore be obtained?

3. When a contract of sale has been entered into, what is necessary to make the risk of the goods perishing lie with the purchasers?

4. And what is necessary to transfer the property to the purchaser, so that on his bankruptcy it would pass to his trustee?

5. Explain the nature of the cash credit bond—the liabilities of the parties to it, and how they come to an end?

6. C. guaranteed to W. all debts due by S. to him. S. granted bills for £7600 to W., who discounted them at certain banks, and so was paid in full; but before the bills were retired W. became bankrupt, and also S., and soon after C. likewise.

The banks ranked on both W.'s estate and S.'s for the full sum of £7600, and drew from W.'s a dividend of £760. For what sum was W.'s trustees entitled to rank on C.'s estate, which was expected to pay about 2s. in the £1?

7. What are the responsibilities of a Railway Company for persons travelling with tickets issued by it?

8. How may the liability of a Railway Company for goods carried along the line be limited?

9. What is the contract of affreightment?

10. Are there any cases in which the owner of a ship that is lost or disabled is entitled to full freight for the cargo?

11. In Marine Assurance, what is abandonment, and when may it take place?

12. In accountings, when two parties have had various transactions, what are the rules as to the application of indefinite payments?

III. CONVEYANCING.

1. Mention the essential requirements in regard to the authentication of deeds granted by persons unable to write, which were in force prior

to the Conveyancing Act of 1874, and the alterations made as regards these requirements by that Act.

2. What is the import of the clause "I grant warrandice" occurring (1) in a gratuitous disposition of heritage? and (2) in an assignation of a personal debt, and where no warrandice is expressed in a deed, what warrandice is implied according to its nature?

3. Under what circumstances has the master of a ship, who is not the owner, power by *statute* or at *common law* to grant securities over the ship? How are such securities perfected, and in cases of competition, what is the criterion of preference between them?

4. Enumerate the different tenures by which land in Scotland could formerly be held, and (2) describe briefly the leading features of such of these tenures as were abolished prior to 1874.

5. Up to what period, and under what circumstances were separate *Acts of Investiture* necessary in giving infeftment? What difference, if any, did their use make in the form of the instrument of Sasine, and under what circumstances were these separate Acts dispensed with?

6. A feued to B, B infeft disposed *a me vel de me* to C, C infeft and unentered disposed similarly to D; how would D have completed his title (a) by resignation or (b) by confirmation in 1845, and what would have been his mode of procedure in either case in 1865?

7. A feued to B, B infeft sub-feued to C, C infeft disposed *a me vel de me* to D, D infeft and unentered redispensed to B, who at same time bought the superiority of his own feu from A; describe briefly the nature of the conveyance B ought to have got in each case, and detail the method by which prior to 1874 he would have completed his title so as to reunite the whole.

8. A entered with the Crown, disposed *mortis causa a me vel de me* to his son B, B infeft but unentered died intestate, and was succeeded by a son C; state the steps by which C would have made up a public title to the property prior to 1847, and those by which he might have done so in 1870.

9. A infeft disposed by *mortis causa* deed, "failing heirs of my body," to B, whom failing, to C, and the heirs of their respective bodies; how and in what character would you make up the title of the *successor* to the property, supposing that

(1) A died, survived by a son X.

(2) A died unmarried, predeceased by B without issue, and survived by C.

(3) A died unmarried, survived by B, who died without having made up a title, leaving a son Y, who also died without having made up a title, having previously disposed to Z.

10. A infeft died intestate in the lands of X and Y, and was succeeded by B, B served heir in special to A, in the lands of X, and obtained a writ of *clare constat* in the lands of Y, and dying uninfeft and intestate was succeeded by C, C possessed without a title, and

dying intestate, was succeeded by D; detail the steps by which D would have completed his title (1) in 1860, (2) in 1870, and (3) now.

11. A, by antenuptial contract of marriage, disposed his estate to himself in life, and the heirs of the marriage in fee, and took infestment in terms of the destination. On A's death, how and in what character will B, his eldest son, make up a title, and what difference, if any, would it have made had A restricted his right to a bare life, and that the infestment had not embraced the fee? State the principle involved.

12. What was necessary for the constitution of a strict entail prior to the Rutherford Act of 1848? What changes were made in the form of the deed of entail (1) by that Act and (2) by the Titles Act of 1858?

IV. PUBLIC LAW.

i. NATURAL LAW.

1. Define Natural Law. How far has it any connection with

- (a) The Roman *jus naturale*;
- (b) The Roman *jus gentium*;
- (c) The English system of Equity?

Can it be referred to a so-called "Primitive State of Nature," or to "Primitive Contract?" State reasons.

2. Explain the meaning of Positive Law and its two-fold aspect as a science and as an art, and distinguish it from Enacted Law.

3. Explain the origin of Rights and Duties, and reconcile the apparent conflict between systems of Jurisprudence which start from benevolence and from self-interest.

4. State the distinction which has been attempted to be made between Perfect and Imperfect Obligations; explain the form which it took in Kant's hands, and give examples of its theoretical and practical effects.

5. Contrast Analytic with Synthetic Justice. In what sense is either of them involved in the idea of Liberty? Show historically how the true principle has been misunderstood by some philosophers and politicians.

6. What are the leading principles and characteristics of the Historical School of Law; and to what objections is the historical method justly liable?

ii. PUBLIC INTERNATIONAL LAW.

1. Explain its source in the doctrine of Recognition.

2. In what sense may the Positive Law of nations, like positive law generally, be said to be voluntary? Explain the distinction in this respect between the law itself and the relations resulting from human volition which give rise to it.

3. What is a State? Distinguish between its necessary and contingent characteristics.
4. Show how the Doctrine of Intervention may be reconciled with that of separate national existence, and give historical instances of Intervention in behalf of liberty by Great Britain.
5. Explain the Doctrine of Exterritoriality. What are its effects, and what is its foundation?
6. What is the law applicable to enemies' goods in neutral ships, and neutral goods in enemies' ships, according to
 - (a) Natural Law ;
 - (b) The Consolato del Mare ;
 - (c) The Armed Neutrality of 1780 ; and
 - (d) The Paris Declaration of 1856 ?
7. What were the provisions of the Declaration of 1856 with reference to Privateering and Blockade.

iii. PRIVATE INTERNATIONAL LAW.

1. Define Private International Law, and explain the relation in which it stands to the doctrine of Recognition. Does your answer apply to the recognition of Turkey by the Western Powers by the Treaty of Paris of 1856 ?
2. State and explain the grounds on which the doctrine of the *comitas gentium* has ceased to be regarded by Continental Jurists as the basis of Private International Law.
3. How is the local law applicable to an Obligation to be ascertained? Apply the principle to the cases of
 - (a) The tutory of pupils.
 - (b) A loan contracted by a person at the place of his domicile.
 - (c) A contract made by the debtor while on a journey. State reasons.
4. What is Savigny's view as to the distinction between personal and real property, and the applicability to property and succession of the *lex domicilii*, and the *lex rei sitæ* ? Criticise his doctrines.
5. *Locus regit actum. Tempus regit actum.* Explain these maxims with illustrations.
6. Is the rule that laws are not retroactive of universal application? Give reasons.
7. In considering the validity of testamentary provisions, what points of time are important with regard respectively to
 - (a) The legal capacity of testator (alien, married woman, &c.)
 - (b) The physical capacity of testator (minority, insanity, &c.)
 - (c) The legal and physical capacity of beneficiaries.
 - (d) The contents of the provisions.
 - (e) Their form.
8. What are the various views regarding the property relations of spouses when the husband has changed his domicile subsequent to the

marriage? On what principle does Savigny think they should be regulated?

9. State some exceptions to the rule that questions of personal *status* are determined by the *lex domicilii*.

10. What instances does Savigny give of persons who have no domicile? How are these cases determined by our law?

V. CONSTITUTIONAL LAW AND HISTORY.

Friday, 29th June 1877.

1. What germs of the Feudal System existed in England before the Conquest?

2. Describe the constitution and powers of the Witanagemote. Wherein did it differ essentially from the modern Parliament?

3. What change in the character of the English nobility was introduced by the Norman Conquest; and what have since been the leading marks of difference between the English and foreign nobility?

4. What important law was passed under Henry II. to restrain the power of the clergy; and what were its principal provisions?

5. Mention the chief events that led to the granting of Magna Charta; and what were the fundamental principles of the constitution thereby secured?

6. Give some account of the *Concilium Magnum* and the *Concilium Ordinarium*. In what form do they still survive?

7. Distinguish between the Scutage, Carucage, and Tallage of the Plantagenet kings.

8. In what respects is the reign of Edward I. constitutionally an important one?

9. What rights and privileges were secured to the Scottish peerage under the Treaty of Union? Compare them with those of British peers.

10. Give the substance of the provisions of the Scottish Act of Security and Act ratifying the Treaty of Union relating to the Universities and Law Courts of Scotland.

11. Who was the Electress Sophia? Why was the crown of Great Britain settled upon her and her descendants? Name those who at the date of the Treaty of Union preceded her in the line of legitimate descent.

12. Give instances where the House of Commons and the Common Law Courts have come into collision on questions of privilege. What has been the general result?

13. What privilege do Members of Parliament possess with regard to immunity from arrest, and over what period does such immunity extend?

VI. MEDICAL JURISPRUDENCE.

Thursday, 28th June 1877—10 o'clock.

I. *Recognition of the Dead by scars and tattoo marks.*

What is the nature of a scar?

- 1st. As to its structure.
 - 2d. As to its permanence or liability to change.
 - 3d. Can we determine the age of a scar?
 - 4th. State what is known as to the durability of tattoo marks.
- II. *Poisoning with Antimony.*
- 1st. Give some account of the physical properties of the poison known as Tartar Emetic.
 - 2d. To what class of poisons does it belong?
(A general statement of the kind of symptoms produced in chronic poisoning with it is expected, but not minute medical details.)
 - 3d. Give some account (without minute chemical details) of one of the approved methods of detecting the poison.
- III. *Rape.*
- 1st. Under what circumstances, irrespective of physical force, may the crime be perpetrated?
 - 2d. What is the value of laceration of the hymen as part of the proof of rape?
 - 3d. How are seminal stains recognised?
 - 4th. What is the value of the detection of seminal stains as part of the proof of rape?
- IV. *Testamentary Capacity.*
- How far can eccentricity be distinguished from insanity in reference to testamentary capacity? Illustrate your remarks by reference to some actual case.

V.—DEGREES IN MEDICINE.

PRELIMINARY EXAMINATIONS.

Questions proposed on Tuesday,

I. ENGLISH.

Tuesday, 9th October 1877—9 to 11 o'clock.

1. Take down the following passage, attending carefully to spelling and punctuation. (*Passage to be dictated here,*)
2. Write a short essay, not exceeding two paragraphs in length, on any one of the following subjects :—
 - (a) The Colorado Beetle.
 - (b) Mary Queen of Scots.
 - (c) The Bulgarian Atrocities.
3. Analyse the following sentence, and parse the words in italics :—
 Most sweet *it* is with unuplifted eyes
 To pace the ground, *if* path there *be* or none,
 While a fair region round the traveller lies
Which he forbears again to look upon,
 Pleased rather with some soft ideal scene.

4. (a) Give the past and past participle of the following verbs :—*Forsake, slay, smite, wear, choose, freeze.*

(b) Explain and exemplify the following terms :—*Diphthong, a noun in apposition, transitive verb, reflexive pronoun, irregular comparison of adjectives.*

5. Give the meaning and derivation of any five of the following words :—*Alfred, Northumberland, Edinburgh, psychology, phenomenon, synopsis, church, 'bus, venom, cherry.*

6. Correct the following sentence and insert points :—Not knowing it is impossible to say which is the greatest blunder to overestimate or underestimate the talents for studying which may have been given us.

7. Tell the position and what you know of any five of the following places :—*Port Said, Salford, Plevna, The Transvaal, Erzeroum, County Clare, Pittsburg, Tiflis, Madras, Khiva.*

8. Give some account of any five of the following :—*Battle of Senlac, Alcibiades, Gustavus Adolphus, The Insurrection of Boadicea, The Man of the 2d of December, Persecution of Diocletian, Arrest of the Five Members, Provisions of Oxford, The Declaration of Independence, M. Thiers.*

Tuesday, 12th March 1878—9 to 11 o'clock.

1. Take down the following passage, attending carefully to spelling and punctuation. (*Passage to be dictated here.*)

2. Write a short essay, not exceeding two paragraphs in length, on any one of the following subjects :—

- (1.) The war between Russia and Turkey.
- (2.) Present condition of the English Stage.
- (3.) Hydrophobia.

3. Analyse the first of the following sentences ; parse the italicised words in both ; and correct any grammatical error :—

“One set of men in particular *had*, with a baseness and cruelty *beyond* all description, attacked his honour and his life, the witnesses of the plot.”

“The *only* revelation of God's will to mankind, and the only record of God's *dealings* with men, *is* now to be obtained for a sum *which* a labouring man might save out of one day's wages.”

4. Give the derivations and meanings of five of the following nouns : *Gossip, Count, Master, Dean, microscope, misogynist, impecuniosity, sociology, dynamics, Ethelred.*

5. Describe the situation and tell what you know of any five of the following : *The Balkans, Bosphorus, Batoum, Pera, Dardanelles, Quetta, Perugia, Utah, Mycenæ, Aden, Zanzibar, Kidderminster, Toronto, Dumfries, Utrecht.*

6. Give some account of any five of the following : *Battle of Bouvines, Coriolanus, Gustavus Adolphus, Battle of Stamfordbridge, Quintilian, Grand Remonstrance, Gowrie Conspiracy, Thomas Jefferson, Constitu-*

tions of Clarendon, Napier of Merchiston, Council of Trent, Bull's Run, Malplaquet, The Porté, The Slavonian Nations.

7. (a.) Write out the future indicative of the verb *to go*.
 (b.) Give the *positive* and *superlative* of *elder*, *worse*, *more*, *less*, *utter*.
 (c.) Distinguish, with illustrations, *personal reflexive*, *demonstrative*, *relative*, *possessive*, and *indefinitive pronouns*.
8. Correct the following sentences of bad English, and point out the nature of the errors:—
 (a.) "A halo of joy pervaded every heart."
 (b.) The weather is such as to prevent us indulging in out-door exercise; but a good book is a capital substitute for a fine day, when sheltered in a comfortable home. Seated by the fire, a good book is one of the, if not the very best source of enjoyment.

II. ARITHMETIC.

Tuesday, 9th October 1877—11.30 to 1.30 o'clock.

The full work must be shown in each answer.

1. Multiply *four hundred thousand and ninety-eight* by *four thousand eight hundred and sixty*.
 Divide 21,585,249 by 237.
2. From 5 tons subtract 4 tons 19 cwt. 3 qrs. 1 lb. 11 oz., and multiply the remainder by 97.
3. What is a prime number?
 Write down the prime numbers between 120 and 140.
4. Simplify $\frac{1}{9} + \frac{5}{12} - \frac{4}{15} - \frac{7}{30} + \frac{13}{20}$.
 Divide 7.75 by 3.2.
5. Find the number of square yards in a plot which measures $6\frac{1}{2}$ yards by $5\frac{1}{2}$ yards. What fraction is this of an acre?
6. Reduce 16s. $2\frac{1}{4}$ d. to the decimal of £1.
 Multiply £4, 5s. by '15, and express the answer in pounds, shillings, and pence.
7. Find the interest for five months on £217, at $3\frac{1}{2}$ per cent. per annum.
8. The metre is 39.37 inches. Express in yards, feet, and inches the difference between 29 kilometres and 18 miles.
9. Find the income obtained by investing £18,669 in the 3 per cents. at $95\frac{1}{8}$, brokerage being charged at $\frac{1}{8}$ per cent.

Tuesday, 12th March 1878—11.30 to 1.30 o'clock.

N.B.—*The working of each question must be given in full.*

1. Reduce one million four hundred and eight thousand and eight farthings to pounds, shillings, and pence.
2. Find the difference between 37 lots of 2 qrs. 17 lbs. 14 oz., and 65 lots of 1 qr. 14 lbs.

3. Make out a bill for the following articles: $3\frac{1}{2}$ at $6\frac{1}{2}$ d., 10 at 2s. 7d., $6\frac{1}{4}$ at 11s. 5d., and 12 at $9\frac{1}{2}$ d.

4. (1.) From the sum of $\frac{1}{4}$ and $\frac{1}{3}$ take the sum of $\frac{1}{7}$ and $\frac{1}{5}$

(2.) Simplify $\frac{\frac{7}{10} \text{ of } 3\frac{1}{3}}{\frac{1}{9} + \frac{1}{3} \text{ of } \frac{1}{9}} \div \frac{5\frac{1}{4}}{4\frac{1}{3}}$.

5. Multiply 2'21 by 14'4 and divide the result by '013.

6. (1) Find the simple interest on £125 for four years at $3\frac{1}{2}$ per cent.

(2) Find the compound interest on £3125 for three years, at 4 per cent.

7. If seven articles cost 13s. 4d., how many can I buy for £36, 6s. 8d.?

8. If by selling at 7s. $6\frac{3}{4}$ d. I gain 10 per cent. on the outlay, how much per cent. do I lose or gain when I sell at 7s. $1\frac{1}{4}$ d.?

9. In a mile race one man loses one yard in every fifteen he runs, by how much will he lose the race?

10. The hectare is a square whose side is 100 metres. Express in kilogrammes the weight of a rainfall of one centimetre on a hectare, assuming the weight of a cubic centimetre of water to be one gramme.

III. LATIN.

Tuesday, 9th October 1877—2 to 4 o'clock.

1. Translate—

Virgil, *Æn.* vi. 295-316, from “Hinc via,” to “arceat arena.”

2. State and explain the case of—*cano, velis, deo, vita, rogis.*

3. Parse and conjugate—*subigit, effusa, defuncta, immittit, tendebant.*

4. Explain—*sacravit remigium alarum: Amphrysia vates: referentem signa Camillum: duo fulmina belli Scipiadas: insignis spoliis Marcellus optimis.*

5. Translate—

Cæsar, *De Bell. Civ.* iii. 27, from “Hic subitam,” to “domum remisit.”

6. Translate into Latin—

At daybreak he ordered all those who had been posted (*considerē*) on the mountain to descend from the higher ground to the plain (*planities*) and lay down their arms. When they had done this without refusal (*recusatio*), and with outstretched (*passus*) hands, casting (*projicere*) themselves at his feet, and weeping (*flere*) begged (*petere*) their lives (*salus*) from him, he comforted (*consolari*) them, bad them rise (*consurgere*), and having said (*loqui*) a few words to them about his moderation (*lenitas*), he spared (*conservare*) the whole of them.

Tuesday, 12th March 1878—2 to 4 o'clock.

1. Translate Virgil, *Æneid* vi., 817-835, from “Vis et Tarquinius” to “sanguis meus.”

2. Write short explanatory notes on the above passage.
3. Parse, and give the principal parts of *ferent, vincet, cernis, attigerint, ciebunt*.
4. Compare *pulchra, infelix, concordet*, and also the adverbs formed from them.
5. Translate—Corn. Nepos, *Hannibal I.*, from “*Si verum est*” to “*devicit unius virtutem*.”
6. Translate into Latin.

Next year ambassadors came from Rome to Carthage. Hannibal, thinking that they had been sent for the purpose of demanding him to be delivered up (*exposcere*), took ship (*navem ascendere*) secretly and fled for refuge (*profugere*) to Antiochus before (an audience of) the Senate was given them. When this became known, the Carthaginians despatched two vessels to seize (*comprehendere*) him, confiscated (*publicare*) his goods, destroyed (*disjicere*) his house from the foundation, and declared (*judicare*) him an exile.

IV. ELEMENTARY MATHEMATICS.

Wednesday, 10th October 1877.—9 to 11 o'clock.

GEOMETRY.

All ordinary contractions may be used. Each step of the proofs should be written on a separate line.

1. Define a parallelogram, a rectangle, and a square. Show that the following definition is incomplete:—“An acute angled triangle is a three-sided figure, two of whose angles are acute.”
2. The greater side of every triangle has the greater angle opposite to it.
3. In obtuse-angled triangles, if a perpendicular be drawn from either of the acute angles to the opposite side produced, the square on the side subtending the obtuse angle is greater than the square on the sides containing the obtuse angle, by twice the rectangle contained by the side on which, when produced, the perpendicular falls, and the straight line intercepted without the triangle, between the perpendicular and the obtuse angle.
4. To bisect a given arc.
5. Construct a rectangle equal to the difference of two given squares.

ALGEBRA.

The full work must be shown in each case.

6. Simplify the expressions:—

$$(1.) \ 2a - \{3b - \overline{a - c}\} + \{4b - 3\overline{a - c}\}.$$

$$(2.) \ \frac{1}{a+b} + \frac{1}{a-b} - \frac{2b}{a^2-b^2}.$$

7. Divide (1) $a^2 - b^2 - c^2 + 2bc$ by $a - b + c$.

(2) $-81abcd$ by $-27ac$.

8. Solve the equations :—

$$(1.) \frac{1}{6} (10x + 11) - \frac{1}{3} (14x - 13) - \frac{1}{4} (7 - 6x) = 3\frac{1}{6}.$$

$$(2.) \frac{1}{(x-a)(x-b)} = \frac{1}{(x-c)^2}.$$

9. A person's expenses amount to $\frac{2}{3}$ of his income; taxes amount to $\frac{1}{12}$ of his income, and he saves £150 yearly. Find his income.

10. Prove that $\frac{a}{(a-b)(c-a)} + \frac{b}{(b-c)(a-b)} + \frac{c}{(c-a)(b-c)} = 0$.

Wednesday, 13th March 1878—9 to 11 o'clock.

GEOMETRY.

All ordinary contractions may be used. Each step of the work should be clearly shown.

1. Define a right angle.

If a straight line falling on two other straight lines makes the alternate angles equal to one another, the two straight lines shall be parallel to one another.

2. What is meant by the rectangle contained by two given straight

lines.

3. A straight line be divided into two equal and also into two unequal parts; the rectangle contained by the unequal parts, together with the square on the line between the points of section, is equal to the square on the whole line.

4. The angle at the centre of a circle is double of the angle at the circumference on the same arc.

5. Show that a quadrilateral whose opposite sides are equal must be a parallelogram.

6. Define a tangent, and show that the line drawn perpendicular to a radius from its extremity satisfies the definition.

Prove that from any external point two equal tangents can be drawn to a circle.

ALGEBRA.

6. If $a=1$, $b=2$, $c=3$, $d=-1$, find the values of—

$$(1.) \frac{a^2 + b^2 + c^2 - abc}{(bc + ca + ab)(a + b + c)}$$

$$(2.) \frac{(a-b)(c-d)}{a^2 - \{b^2 + (c^2 - d^2)\}}$$

7. The product of two algebraical expressions is $x^4 - 3x^3 + 5x^2 - 5x + 2$. If one of the expressions be $x^2 - x + 2$, find the other.

8. Solve the equations—

$$(1.) \frac{2}{3}(x-4) + \frac{x+1}{2} = 3 + \frac{2x+5}{4}$$

$$(2.) 10x + 9y = 290, 12x - 11y = 130.$$

9. Simplify—

$$(1.) \frac{6xy - 14y^2}{9x^2 - 21xy}$$

$$(2.) \frac{a+b}{a-b} + \frac{a-b}{a+b} - 2 \frac{a^2+b^2}{a^2-b^2}$$

10. The sum of £68 is contributed by 100 people. Some contributed half-a-crown each, and the others one guinea each, find how many gave a guinea.

V. ELEMENTS OF DYNAMICS (MECHANICS).

Wednesday, 10th October 1877.—11.30 to 1.30 o'clock

KINEMATICS.

1. Define uniform velocity.—A railway train, moving uniformly, travels $37\frac{1}{2}$ miles in an hour. Find its velocity in feet per second.
2. A body falls from rest, what is its velocity, after falling 10 seconds and a half, and what distance will it fall in that time?

KINETICS.

3. Define mass and momentum.—A cricket ball weighs 10 ounces, and is moving with a velocity of 40 feet per second. Compare its momentum with that of a cannon ball which weighs 2c, but is moving with a velocity of 18 feet per second.
4. Enunciate the second law of motion. Show that it enables us to investigate the motion of a falling body.
5. Find the resultant of the following forces :—5 north, 5 eastwards, 1 westwards, and 2 southwards.

STATICS.

6. Parallel forces of 4 and 6 pounds act in the same direction at two points, A and B, in a body. Find at what point in AB the force must act to maintain equilibrium.

7. State the three kinds of equilibrium, and give an example of each.

8. A horizontal force of 5 lbs. supports a weight of 12 lbs. on an inclined plane. Find the pressure on the plane.

HYDROSTATICS.

9. Define a fluid. What is the law of pressure at different depths below the surface of a liquid?

10. The specific gravity of lead is 11. What is the real weight of a mass of lead which, when suspended in water, seems to weigh 1 lb.?

Wednesday, 13th March 1878—11.30 to 1.30 o'clock.

KINEMATICS.

1. Define velocity, distinguishing two kinds.

A point passes over x yards in a minute; find its velocity in feet per second.

2. Explain what is meant by the composition of two velocities.

A steamer is moving at the rate of 20 feet per second, and a ball is rolled across the deck at the rate of 15 feet per second. Find the resultant velocity of the ball.

KINETICS.

3. State the first law of motion.

Mention some fact exemplifying this law.

4. Define and distinguish mass and weight.

Compare the momenta of two masses of 6 and 7 lbs., moving with velocities 8 and 7 respectively.

STATICS.

5. Prove that three equal forces in one plane can only be in equilibrium when each makes an angle of 120° with each of the others.

6. What is meant by the centre of gravity of a body?

How can its position be found by experiment?

7. A straight rod, 6 feet long, and heavier toward one end than the other, is found to balance on a fulcrum 2 feet from the heavier end; but, when placed on a fulcrum at the middle, it requires a weight of 3 lbs. hung at the lighter end to produce equilibrium. Find the weight of the rod.

8. A body weighing 7 lbs. rests on a horizontal plane. If the coefficient of friction between the body and the plane be $\frac{1}{10}$, what horizontal force will be required to make the body slide along the plane?

HYDROSTATICS.

9. Find the pressure on the base of a vessel containing a liquid, and explain, with the help of a diagram, how this pressure may exceed the weight of the liquid.

10. A piece of gold weighing 136 grains, when immersed in water, appears to weigh 129 grains. Find its specific gravity.

What is the weight of a quantity of water whose volume is 20 times that of the gold?

VI. FRENCH.

Wednesday, 10th October 1877.—2 to 4 o'clock.

1. Translate Molière, *Les Fourberies de Scapin*, ii. 8, from “Eh ! Monsieur,” to “fuir jusqu’aux Indes.”

2. Write out the Present Indicative and Subjunctive of *jeter*, *faire*, *dire*.

3. Give the principal parts of *voyez*, *faudra*, *s’entendra*, *battre*, *pouvez*.

4. Give, with examples, exceptions to the general rule for the formation of the feminine of adjectives.

5. What is the difference in meaning of the following adjectives, according as they are placed before or after the noun :—*cher*, *honnête*, *pauvre*, *brave*, *grand*?

6. Write in words the French for the date of the present examination.

7. Translate into French—

The Turks, laden (*charger*) with plunder (*butin*), and frightened (*épouvanter*) at the sudden appearance of the king, throw down (*jeter*) their arms, leap out (*sauter*) of the window or retreat (*se retirer*) to the cellars (*cave*). The king, taking advantage (*profiter*) of their disorder; and his men, animated by this success, pursue the Turks from room to room, kill (*tuer*) or wound (*blessar*) those who do not flee (*fuir*), and in a quarter of an hour clear (*nettoyer*) the house of the enemy.

Wednesday, 13th March 1878.—2 to 4 o'clock.

1. Translate Molière—*Les Fourberies de Scapin*, iii. 3, from “Zerbinette. Oui. Pour peu que,” to “au dernier point?”

2. Give the 1st person singular of the simple tenses, Indicative and Subjunctive, of *voir*, *vouloir*, *savoir*, and write out the Present Indicative and Imperfect Subjunctive of *croire*, *connaître*, *tenir*.

3. Parse the verbs in the Subjunctive mood in the above passage, and explain the use of the mood in each case.

4. Give the feminine of *ambassadeur*, *chanteur*, *vengeur*, *joli*, *ancien*, *bref*, *jaloux*, *doux*, *faux*.

5. Explain—*je me brouillai avec la justice* ; *vous faites le méchant plaisant* ; *de but en blanc* ; *des choses par-dessus les maisons* ; *je ne prétends pas qu’on me fasse passer la plume par le bec*.

6. Translate into French—

I hastened (*s’empresser*) to intrust (*confier*) my cloak to this person, who served me faithfully for ten or twelve hours, took upon himself (*se charger*) to bribe (*corrompre*) by means of a franc the easy virtue of the

custom-house officer (*douanier*), and set me down (*rendre*) safe and sound at the door of our house. Travellers who go to Greece, without knowing Greek, will find servants who speak French, English, and Italian, and who will conduct (*mener*) them, almost without robbing (*voler*) them, to one of the hotels of the town.

VII. GERMAN.

Thursday, 11th October 1877.—9 to 11 o'clock.

1. Translate Lessing, *Minna von Barnhelm*, iii. 4, from "Just hat mir," to "Ein garstiger Verleumder ist."
2. Decline throughout—*ein verdienter Mann* and *das schöne kind*.
3. Give the principal parts of *dacht'*, *sprache*, *erwiesen*, *thut*, *kennen*, *weiss*, *gehen*.
4. Mention the auxiliary verbs of mood, and write out the present indicative of each.
5. Give, with their meanings, a list of the prepositions governing the genitive.
6. Translate into German—

It is useless (*unnütz*), perhaps imprudent (*unklug*), for you, to accompany (*mitreisen*) me. What is to be done, I can very well settle (*abmachen*) alone. If there is any danger (*Gefahr*), which I do not believe, your presence (*Gegenwart*) would not protect (*schützen*) me from it: I should only have a painful feeling (*Gefühl*) that I had brought another into trouble (*Verlegenheit*) on my account.

Thursday, 14th March 1878—9 to 11 o'clock.

1. Translate Lessing—*Minna von Barnhelm*, v. 9, from "Die Dienste der Grossen," to "ein glückliches Paar."
2. Decline *das heiligste Band*, and the Third Personal Pronoun throughout.
3. Give the principal parts of *zwingen*, *bleiben*, *verbinden*, *vergessen*, *sehen*, and write out the Present Indicative of the last two.
4. Write in words the German for the date of the present examination.
5. Sketch the character of Tellheim.
6. Translate into German—

Then he turned (*sich wenden*) to the nobleman and said: "I see that you are a stranger in our town, and I can well understand (*begreifen*) that our customs (*Gebrauch*) are unknown to you. I therefore pardon (*verzeihen*) you. But you must know that in our place the custom is to except (*ausnehmen*) the burgomaster on every occasion (*Gelegenheit*). It is, to be sure, a very old custom, but still a good one, and we wish to retain (*beibehalten*) it."

VIII. LOGIC.

Thursday, 11th October 1877.—11.30 to 1.30 o'clock.

(The Candidate may select either paper A or paper B, but must confine himself to the paper he has selected.)

A

1. Compare the Laws of Thought with (a) the Laws of the Land and (b) the Laws of Nature.
2. Mention some common faults in Definitions.
3. (a) Give examples of propositions in A, E, I, and O. (b) Illustrate each of them by a diagram.
4. What two kinds of false reasonings may be drawn from a Hypothetical Major Premiss?
5. State carefully the various steps in the *combined* or *deductive method*.
6. Give, with examples, the difference between Nomenclature and Terminology.
7. Throw the following into syllogistic form, and test their accuracy :—(a) Since all teetotallers are fond of sweets, and all children are so too, all children must be teetotallers. (b) No terriers have long ears, and no long-eared dogs are good for ratting—so all terriers are good ratters.

B

1. What, according to Berkeley, is the proper and immediate object of Sight?
2. Explain what Berkeley means by *visual language*.
3. How do you show that *distance* or *outness* cannot be seen?
4. How do we learn to see the places of sensible things?
5. Mention desirable experimental tests of the hypothesis that if a person born blind were to receive sight all extra-organic objects would seem to be “in his eye, or rather in his mind.” How far have these been supplied by investigators?

Thursday, 14th March 1878.—11.30 to 1.30 o'clock.

LOGIC.

The Candidate may choose either paper A or paper B, but must confine himself to the paper he has selected.

A.

1. Distinguish the *form* and *matter* of thought : show that Logic is the “most general of all sciences.”
2. What are *general*, *collective*, and *abstract* terms? To what correlative would you oppose each of them?
3. By what terms do different writers distinguish, (a) that to which a name applies, (b) that which it implies?

4. Distinguish *contrary* and *contradictory* opposition, with examples.
5. Convert the following: *No candidates copied. Some candidates did not pass.*

6. How do you distinguish the various figures from one another? Why can no Figure but the first have a conclusion in A?

7. What are the criteria of a good classification?

8. Express the following in syllogistic form, and test their validity:—

(a) He carries his head high, as purse-proud people do: so he must be purse-proud too.

(b) All civilised nations have universities: the Bushmen are not civilised, and so have no universities.

B.

1. What is the precise problem which Berkeley attempts to solve in his *Essay*?

2. What was the current opinion in Berkeley's time as to the way in which we perceive *distance*? What his reasons for dissenting from it?

3. What *facts* may be alleged in support of the view that the connection between what we are conscious of in touch, and what we are conscious of in sight, is explicable by custom or experience?

4. Give Berkeley's view of (a) Extension perceived by sight and touch, (b) Visible extension, (c) Tangible extension. Which does he regard as the proper object of Geometry, and why?

IX. NATURAL PHILOSOPHY.

Thursday, 11th October 1877.—2 to 4 o'clock.

1. Prove the triangle of velocities, and show that the triangle of forces follows as a corollary.

2. What curve is described by a projectile? Illustrate by a figure. A rifle ball is discharged in a slanting direction upwards. If there had been no gravity, it would have reached an altitude of 1000 feet above the earth's surface at the end of one second. Find its actual altitude at that moment.

3. Define and distinguish solids, liquids, and gases. Mention substances which are unknown in the liquid state.

4. State Boyle's law. Show that a certain theory of the ultimate nature of gases affords a good explanation of this law.

5. Give an account of the trade-winds, and explain their cause.

6. Describe an experiment by which we may ascertain the number of vibrations in any given musical note.

7. Why is a compensation balance wheel necessary in a chronometer? Describe its construction and action.

8. Explain what is meant by the Solar Spectrum. Why is the light regarded through a narrow slit?

9. Give some account of the polarization of light.

10. Explain the principle of the Electric Telegraph.

Thursday, 14th March 1878—2 to 4 o'clock.

1. State the third law of motion.

A bomb-shell moving in a horizontal direction bursts into two equal fragments. After the explosion, one fragment falls vertically downwards: what will be the motion of the other?

2. Define energy, and show that there are two types of energy, which are continually being changed into one another.

Enumerate the various forms in which the two types of energy respectively present themselves.

3. Explain the principle of Bramah's press.

A Bramah's press has two pistons, whose diameters are one centimetre and one decimetre respectively: what weight will the larger piston raise when a pressure of 3'45 kilogrammes is applied to the smaller piston?

4. Define hardness, and explain how the relative hardness of a body may be found by the help of a scale of known substances.

5. How is a mercurial thermometer graduated? What corrections must be applied to the graduation?

6. Describe an experiment used by Joule in ascertaining the numerical relation between mechanical energy and heat. State the numerical result.

7. A wave of sound strikes against a plane surface: what are the laws of its reflection?

8. Describe and explain the phenomenon called Newton's rings.

9. A ray of sunlight passes through a horizontal slit, and is received by a triangular glass prism, the axis of the prism being parallel to the slit and the edge pointing downwards. Describe the effect.

10. Give some account of the construction and action of the Telephone.

X. HIGHER MATHEMATICS.

GEOMETRY AND CONIC SECTIONS.

Friday, 12th October 1877.—9 to 11 o'clock.

All ordinary contractions may be used. Each step of the proofs should be written on a separate line.

1. If a straight line be divided into any two parts, the square on the whole line is equal to the squares on the two parts, together with twice the rectangle contained by those parts.

Show algebraically that the rectangle on the two parts can never exceed the square of half the line.

2. A B, A C are two equal chords of a circle at right angles to each other. Show that they are sides of a square inscribed in a circle.

3. The sides of a triangle are 6, 7, and 8. Find the segments into which the bisector of the mean angle divides the opposite side.

4. Define a parabola and an ellipse.

Prove that the subnormal of a parabola is equal to half the latus rectum.

5. In the ellipse, the perpendiculars from the foci on the tangent intersect the tangent in the circumference of a circle, having the axis major as diameter.

Or as an alternative—

To describe a circle that shall pass through two given points and touch a given circle.

ALGEBRA AND TRIGONOMETRY.

(The full work must be shown in each case).

6. Solve the equations :—

$$(1.) \sqrt{101 + \sqrt{x}} + \sqrt{101 - \sqrt{x}} = 20.$$

$$(2.) \left. \begin{aligned} ax + by &= mxy \\ \frac{a}{x} + \frac{b}{y} &= n \end{aligned} \right\}$$

7. A man, by walking at the rate of $\frac{1}{3}$ of a mile per hour above his ordinary rate of walking, gains $\frac{3}{4}$ of an hour in 39 miles. Find his ordinary rate.

8. Find the sum of 21 terms of an arithmetical series whose first and fourth terms are 4 and 13.

9. Find an expression for all the angles which have a given cosine. Solve the equation $\sin 7\theta - \sin \theta = \sin 3\theta$.

10. Prove that in any triangle A B C of which the sides are a, b, c ,

$$(1.) \frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

$$(2.) (b + c) \cos A + (c + a) \cos B + (a + b) \cos C = a + b + c.$$

Friday, 15th March 1878--9 to 11 o'clock.

GEOMETRY AND CONIC SECTIONS.

All ordinary contractions may be used. Each step of the work should be clearly shown.

1. To divide a given straight line into two parts, so that the rectangle contained by the whole and one of the parts may be equal to the square on the other part.

2. If the figure constructed in solving question 1 be completed so as to form a rectangle, prove that one of the diagonals of this rectangle passes through the point of section of the given line, and that the other does not.

3. If the base of a triangle be produced to a point, such that the line intercepted between this point and the extremities of the base are to each other as the sides of the triangle, the straight line joining this point to the vertex bisects an exterior angle of the triangle.

4. To find a mean proportional between two given straight lines.

ABC is a triangle, and AD, BE are perpendiculars let fall from A and B upon the opposite sides. Prove that the rectangle contained by AC and CE is equal to that contained by BC and CD.

5. Prove that the straight line drawn from the focus S of a parabola to the point in which the tangent at any point P meets the directrix, is perpendicular to SP. Show also that the circle described with centre S and radius SP, cuts the axis both at the foot of the tangent and of the normal.

Or as an alternative—

To draw a pair of tangents to an ellipse from an external point.

ALGEBRA AND TRIGONOMETRY.

6. Solve the equations :—

$$(1.) \frac{a-b}{x+a-b} + \frac{b-c}{x+b-c} + \frac{c-a}{x+c-a} = 0$$

$$(2.) \sqrt{x+4} - \sqrt{x} = \sqrt{x+\frac{3}{2}}$$

7. Write down the general term of the expansion of $(a+x)^n$ by the Binomial Theorem.

8. A's money is p times B's. If A lose £10 to B, A's will be q times B's. Required B's money. What is the interpretation of the result when $p < q$.

9. Prove the formula :—

$$\tan(A+B) = \frac{\tan A + \tan B}{1 - \tan A \tan B}$$

10. Find θ from the following equations :—

$$(1.) \sin 3\theta \sin \theta + 1 = 0.$$

$$(2.) \cos^2 \theta - \tan^2 \theta = 2 \operatorname{cosec} \theta \sec \theta.$$

XI. GREEK.

Friday, 12th October 1877.—11.30 to 1.30 o'clock.

1. Translate Xenophon, *Memorabilia*, ii. 7, 12, from “Ἐκ τούτων δὲ ἐπορίσθη” to “ἡδέως ἐργαζόμεναι ζῶσιν.”

2. (a) Explain the use of the subjunctive and optative moods in the above passage.

(b) Parse αἰτιῶνται, and give another construction, with your reason for it.

3. Decline throughout—*κύων, οὗτος, ἐλθών.*
4. Compare—*ἰλαρός, θαιμαστός: ἀσφαλῶς, ἡδέως.*
5. Parse fully, and give the principal parts of—*ἐπορίσθη, ἐώρων, ἀκούσαντα, ἀπώλησθε, συγχωρήσαι.*
6. Translate into Greek—

When some one was punishing (*κολάζειν*) a waiting-man (*ἀκόλουθος*) severely, Socrates asked (*ἐρέσθαι*) why he was angry (*χαλεπαίνειν*) at his servant (*θεράπων*). "Because," said the master, "he is very stupid (*βλάξ*), very avaricious (*φιλάργυρος*), and very lazy (*ἀργός*)." "Have you ever considered (*ἐπισκέπτεσθαι*), then, which of the two needs (*δεῖσθαι*) most stripes (*πληγή*), you or your servant?"

Friday, 15th March 1878—11.30 to 1.30 o'clock.

1. Translate Xenophon—*Memorabilia* II. 9, from "*Χαλεπῶς ἂν, ἔφη*" to "*γῆρας διαρκέστατα.*"
 2. Decline *ἀγνώμονι κριτῇ* and *τὸ γῆρας.*
 3. Parse and give the principal parts of *εὔρεῖν, ποιῆσαι, ἀμαρτεῖν, δύνασθαι, πράττειν.*
 4. Parse *ὑπομείναιμι*, explain the use of the mood, and write out the tense in all the moods.
 5. Give the comparison of any three adverbs from the above passage.
 6. Translate into Greek—
- "Why," said Socrates, "are you afraid of (*φοβεῖσθαι*) the journey (*πορεία*) to Olympia? Do you not walk about (*περιπατεῖν*) at home nearly the whole day? And journeying (*πορεύεσθαι*) thither, you will walk and dine (*δειπνεῖν*) and take your rest (*ἀναπαύεσθαι*). Do you not know that if you were to stretch out in a line (*ἐκτείνειν*) the walks (*περίπατος*) which you take in five or six days, you would easily arrive (*ἀφικνεῖσθαι*) at Olympia from Athens?"

XII. MORAL PHILOSOPHY.

Friday, 12th October 1877.—2 to 4 o'clock.

1. Describe the relation of introspective and physiological enquiries.
2. Criticise the distinction of actions into *good, bad, and indifferent.*
3. (a) What is the fundamental difficulty in explaining the origin of our knowledge of moral distinctions by means of the *Laws of Association*? (b) What is the function of these laws?
4. (a) What is Utilitarianism? (b) How did John Stuart Mill modify the current Utilitarian doctrines?
5. Mention cases where the *origination*, and where the *continuance* of activity is due to volition.
6. Discuss the question whether the authority of conscience lies in what it *is* or what it *discovers*.
7. Show how the intuitional theory of conscience can be reconciled with the actual diversity of opinion on morality.

8. (a) "There cannot be an act of will without motives." (b) "We can only will as the preponderance of motives directs." Explain and discuss these two statements.

Friday, 15th March 1878—2 to 4 o'clock.

1. Trace the limits of Psychology and Physiology, and show that they supplement one another.

2. Distinguish Moral Act, Moral Judgment, and warrant for Moral Judgment; and explain how the mind attains such an abstract conception as that of Honesty.

3. "The moral laws, all claiming independent authority, there is no umpire to decide between them." Examine the validity of this criticism of Intuitionism.

4. Distinguish *Motive*, *Obligation*, and *Sanction*, as concerned with right action.

5. Discuss the question whether conscience is emotional or intellectual in its character.

6. Distinguish a judgment of *rightness* from one of *oughtness*. Give illustrations.

7. What psychological evidence can you adduce in favour of "Free Will?"

8. "Motives are the occasions for the exercise of Will, but do not control it." Examine this statement.

9. How far is "causality" in *mind* analogous to "causality" in *matter*?

FIRST PROFESSIONAL EXAMINATION, AND FIRST EXAMINATION FOR B.Sc.

I. NATURAL HISTORY.

Friday, 19th October 1877—2-4 o'clock.

Examiners—Sir C. WYVILLE THOMSON and Dr M'INTOSH.

1. Describe the dentition in the Rodentia, and give dental formulæ for the hare, the rat, and the beaver.

2. Describe the alimentary canal, with its associated glands, in a pigeon.

3. Describe the wing in a bird, a bat, a flying lizard, and a butterfly; and, in doing so, make clear the meaning of the words "homologous" and "analogous"—as applied to such structures and their parts.

4. Briefly indicate the characters of the chief groups into which the Mollusca proper have been divided, and name an example of each.

5. What is the general structure and mode of growth of a Madrepor?

Monday, 1st April 1878—2 o'clock.

1. Describe the structure of any nematoid worm, and indicate the life history of *Trichina spiralis*.
2. Mention the groups into which the Myriapoda have been divided, and describe the general structure of an example of each.
3. Give the characters of the class Reptilia.
4. Give the characters of the class Aves.
5. Mention the chief characters of the Cetacea, and the groups into which the Order is divided.

II. BOTANY.

Saturday, 20th October 1877—11-1 o'clock.

Examiners—Professor BALFOUR and Dr CLEGHORN.

1. Describe the fruit of the following plants :
Mustard, Cotton, Banana, Walnut, Valerian, Henbane, Croton,
Juniper, Hop, Willow. Value of complete answer 20
 2. Refer the following plants to their natural orders,—
Liquorice, Vanilla, Bamboo, Chicory, Logwood, Peppermint,
Indigo, Parsley, Beet, Foxglove, 10
 3. Give the characters of the Malvaceæ. What are the economic properties of the Order? Illustrate your answer by examples, 10
 4. Describe the structure of the Ovule in Angiosperms at the moment when fecundation is effected, 10
 5. Give a brief account of the life history of any Fern, and describe carefully the organs of reproduction, 20
 6. Mention any instances of periodic movements in plants with which you are acquainted, and describe the motions which take place, 10
 7. Describe the structure of the stem in an ordinary Dicotyledonous plant at the end of the first year's growth, and trace successively the changes which occur up to the end of the third year. What is the essential difference betwixt the stem of a Dicotyledon and that of a Monocotyledon? 20
-
- Total value, 100

Tuesday, 2d April 1878—11 to 1 o'clock.

1. What is meant by the term Cirrus?
What does it represent in—
The Vine, the Passionflower, the Cucumber, the Vetch,
Lathyrus Aphaca. Value of complete answers 12
2. Describe the Stipules of—
Rhubarb, Viola tricolor, the Rose 6
3. Describe the Stigma of—
Sarracenia, Vinca, Nettle, Violet, Mimulus, Orchis, 12

4. Describe the Fruit of— The Hop, the Juniper, the Cocoa-nut, the Yew, the Spanish Chestnut, the Horse Chestnut,	12
5. Describe the Pollen of— The Passionflower, the Fuchsia, Zostera,	6
6. Describe the Sub-Orders of Compositæ, and give an example of each.	10
7. Describe the male and female flowers of a Carex, and explain how a Carex differs from a Grass and a Rush,	10
8. Describe three kinds of anomalous petals which occur in the order Ranunculaceæ, and give an example of each,	6
9. Give the points of affinity and of difference between Papaveraceæ and Cruciferae, and illustrate by examples,	12
10. Give the Life History of a Moss,	14
Total value,	100

III. CHEMISTRY.

Friday, 19th October 1877—11-1 o'clock.

Examiners—Professor CRUM BROWN and W. DITTMAR, Esq.

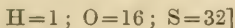
Chemical actions to be described in words, and equations given where possible.

1. What is the action of aqueous solution of Hydrochloric acid on—
(a) Chalk, (b) Bleaching Powder, (c) Nitric Acid, (d) Common Alcohol, (e) Glycerine.
2. Describe the action of heat upon—
(a) Nitrate of Copper, (b) Nitrate of Potash, (c) Black Oxide of Manganese, (d) Acetate of Lime, (e) Cane Sugar.
3. Explain how *ordinary* Phosphate of Soda can be prepared from bone ash.
Calculate (to within 1 lb.) how many lbs. of bone ash would be needed to make 100 lbs. of Phosphate of Soda.
4. Explain methods for the preparation of (a) Calomel, and (b) Corrosive Sublimate from metallic mercury. State wherein the two substances agree and wherein they differ in composition and properties.
5. Describe the preparation of common ether from alcohol, and give shortly the theory of the process.
6. What volume of Oxygen (in litres) measured at 15° C. and 1000 millimetres pressure, is required for the complete combustion of ten grammes of Phosphorus?

NOTE.—H = 1, O = 16, P = 31, Na = 23, Ca = 40. Two grammes of Hydrogen at 0°C, and 760 millimetres pressure occupy a volume of 22.33 litres.

Monday, 1st April 1878.—11 to 1 o'clock.

1. What takes place when Nitrate of Ammonia is heated—
 - a.* By itself?
 - b.* With solution of Caustic Potash?
 - c.* With Oil of Vitriol?
 - d.* With Oil of Vitriol and aqueous solution of Ferrous Sulphate?
 2. What takes place when Bisulphide of Carbon is treated—
 - a.* With aqueous solution of Caustic Potash?
 - b.* (For a considerable time) with Ammonia and aqueous Alcohol?
 3. What takes place when a Fat is boiled with dilute solution of Caustic Potash?
 4. How is Urea prepared, *a* artificially, *b* from Urine?
 5. A quantity of Sulphur weighing four grammes is burned in a close glass vessel containing 28·5 litres of pure dry air at 27° C, and 760 millimetres pressure. What is the volume of the resulting gaseous mixture at 0° C. and 760 millimetres pressure, and what is its composition per cent.?
- [One gramme of Hydrogen at 0° C. and 760 millimetres pressure occupies 11·2 litres.



SECOND PROFESSIONAL EXAMINATION.

IV. ANATOMY.

Tuesday, 3d July 1877—12·2 o'clock.

Examiners—Professor TURNER and JOHN CHIENE, Esq.

1. Write a detailed description of the anatomy, in the *male*, of the region in the anterior abdominal wall, bounded below by Poupart's ligament, internally by the linea alba, and superiorly by a line drawn transversely inwards from the anterior superior spine of the ilium to the linea alba.
2. Describe, from the surface inwards, the dissection necessary to expose the External Pterygoid Muscle. Give at each stage of the dissection the relative position of the several objects exposed.
3. Describe the Radio-Ulnar Articulations. Give the precise insertion into the radius of the muscles which act directly on these joints in pronation and supination. Name the nerves which supply these muscles.
4. Define the terms Endothelium and Epithelium. Give the structural characters of each, and state the localities in which they are found.

Monday, 8th April 1878.—12 to 2 o'clock.

1. Describe the dissection required to expose the Celiac Axis, and its *primary* branches. Give the course, distribution, and anastomoses of the various primary and secondary branches.

2. Describe the anatomy of the Testicle ; (*a*) its position in the foetus and adult ; (*b*) its coverings in the adult ; (*c*) its coats ; (*d*) the arrangement of its tubules ; (*e*) the structure of their contents ; (*f*) the course of the excretory duct from its commencement to its termination.

3. What movements take place at the Hip Joint? Name the muscles which cause each movement, and give their relations to the joint. By what nerves are they supplied?

4. Give the dissection required to expose the first part of the right Subclavian Artery ; (*a*) the incisions to be made in the skin ; (*b*) the relative position of the structures superficial to the artery. In what order do the branches arise from the first part of this artery?

V. INSTITUTES OF MEDICINE.

Tuesday, 3d July 1877—2.30-4.30 o'clock.

Examiners—Professor RUTHERFORD and Professor GAMGEE.

1. Give an account of

a. The minute structure of the Liver.

b. The composition of the Bile, and the sources of its constituents.

c. The functions of the bile in the alimentary canal and the destiny of its constituents.

2. Through what channels in the Spinal Cord and Medulla Oblongata do sensory and motor impulses pass to and from the brain, and how has our present knowledge of this subject been arrived at?

3. Describe the experiments by which Waller was led to the conclusion that the nutrition of nerve fibres is influenced by nerve cells.

Monday, 8th April 1878.—2.30 to 4.30 o'clock.

1. Illustrate by examples the essential structural arrangements found in secreting organs, and state :—

a. Upon what grounds we assert that the act of secretion is not a mere act of filtration.

b. The facts drawn from a study of the salivary glands that lead physiologists to assert the existence of a separate class of secretory nerves.

2. Describe the mode of formation, the structure, and the supposed functions of the Placenta.

3. Describe the minute structure of the Hemispherical Ganglion, and state the evidence in support of theories entertained regarding its functions.

VI. SURGERY.

Monday, 4th June 1877—12-2 o'clock.

Examiners—Professor SPENCE and Dr. DUNSMURE.

1. Describe the appearances, causes of displacement, and the treatment in the following injuries :—
 - a. Dislocation of the sternal end of clavicle.
 - b. Dislocations of the acromial extremity of clavicle.
 - c. Fracture at or near middle of clavicle.
 - d. Fracture close to the sternal extremity of clavicle.
2. Describe the local and general symptoms, pathology and treatment of the two following cases :—
 - a. In a case of Extravasation of Urine, taking place rapidly in consequence of the Urethra giving way behind a stricture situated in the posterior part of the spongy portion of the Urethra.
 - b. In a case in which Urinary Infiltration supervenes upon an abscess in the Perineum connected with stricture of the Urethra.
3. Surgical Anatomy.—Describe the Relative and Surgical Anatomy of the lowest third of the anterior region of the forearm and palmar region of the hand, with special reference to Wounds, Thecal Bursitis, and pathological conditions resulting from affections of the Palmar Fascia.

VII. MATERIA MEDICA.

Examiners—Professor THOMAS R. FRASER and Mr HENRY.

Wednesday, 4th July 1877.—12 to 2 o'clock.

- | | |
|---|-----------|
| 1. How is Gallic Acid prepared, and what are its characters and tests? | Value, 15 |
| 2. By what chemical tests may the Iodide be distinguished from the Bromide of Potassium? | 10 |
| 3. Describe the physiological action of Alcohol on the several functions and organs affected by it, in (a) moderate and (b) excessive quantities, | 20 |
| 4. What are the officinal compounds and preparations of Bismuth? Describe their general therapeutical uses, and mention the dose of each of them, | 15 |
| 5. What symptoms of disease may be treated by Nitrite of Amyl, and to what actions may its beneficial influence be referred? | 15 |
| 6. Describe the physiological action of Ergot, | 15 |
| 7. What is the general method followed in the preparation of the <i>Succi</i> ? | 5 |
| 8. Mention the officinal <i>Succi</i> , | 5 |
| Total value, | 100 |

Tuesday, 9th April 1878.—12 to 2 o'clock.

1. What effects does Hydrochloric Acid produce when swallowed undiluted, and when swallowed in small quantities and diluted? In what diseases is it employed? What are the officinal preparations and their doses?

2. Mention the chief purgative salts of Potassium, and the purgative dose of each of them.

3. What symptoms are produced by the inhalation of Nitrite of Amyl, and to what therapeutical purposes may the inhalation of this substance be applied?

4. What are the botanical and geographical sources of Ipecacuanha? Describe the appearance of the part of the plant employed, and name its active principle.

5. Describe the effect produced by Atropia upon (a) the heart, (b) the spinal cord, (c) the salivary glands, and (d) the sweat glands.

6. Describe the physiological action of Strychnia, mentioning first the symptoms produced by a large dose, and then the action upon the spinal cord, stomach, circulation, and respiration. What officinal preparations contain Strychnia, and what are their doses?

VIII. PRACTICE OF PHYSIC.

Examiners—Professor GRAINGER STEWART and
Dr DYCE DUCKWORTH.

Tuesday, 5th June 1877.—12 to 2 o'clock.

1. State the grounds of differential diagnosis between Varicella and modified Small-Pox.

2. (a.) Give the symptoms and characteristics of Acute Dysentery.

(b.) What treatment would you adopt?

(c.) How would you treat a case of Chronic Dysentery in respect of Medicine and Diet?

3. (a.) Enumerate the chief varieties of Epileptic seizure.

(b.) Describe a typical attack of Grand Mal.

(c.) Indicate the causes of the disease—

(d.) And its results.

IX. PATHOLOGY AND MORBID ANATOMY.

Examiners—Professor SANDERS and Dr PAYNE.

Wednesday, 4th July 1877.—2.30 to 4.20 o'clock.

1. Specify the points of distinction between Carcinoma and Sarcoma. What is the histological structure of the different kinds of Sarcoma?

2. Describe briefly the different morbid conditions which may be met with in the Myocardium.

3. Describe the naked eye appearance and histological changes of Acute Suppurative Nephritis, and state some of the causes which lead to this morbid process.

Tuesday, 9th April 1878.—2.30 to 4.30.

1. Describe the naked eye, and microscopical characters of organs affected with Lardaceous, Waxy, or Amyloid Degeneration. Give an account of its Chemical characters, and Pathological relations.

2. Give a brief description of the different morbid conditions which may be met with in the Myocardium.

3. Describe the situation, appearances, and progress of Tubercular diseases of the Intestines.

X. MIDWIFERY.

Examiners—Prof. SIMPSON and Dr MACDONALD.

Monday, 4th June 1877—2.30 to 4.30 o'clock.

1. Give the Varieties, Diagnosis, and Treatment of Rigidity of the Cervix when retarding Labour.

2. Describe the Diagnosis, Dangers, and Treatment of a Case of Labour in which the shoulder presents.

3. What are the causes, Symptoms, Diagnosis and Treatment of Pro lapsus of the Uterus?

XI. MEDICAL JURISPRUDENCE.

Examiners—Professors MACLAGAN and FERRIER.

Tuesday, 5th June 1877—2.30 to 4.30 o'clock.

I. Criminal Abortion.

1. What constitutes the crime?

2. Enumerate the chief natural causes of abortion.

(a.) On the part of the mother.

(b.) On the part of the fœtus.

3. State the chief criminal methods employed,

(a.) Mechanical.

(b.) Medicinal.

4. Particularise those which are most effectual, and the danger which may attend their employment.

II. Poisoning by Copper.

1. Enumerate and briefly describe the more common poisonous salts of copper.

2. State the method of detecting copper in organic liquids and solids.
3. What are the symptoms of acute poisoning with salts of copper?
4. What is the treatment?
5. Mention the chief sources of chronic poisoning with copper.
6. Compare it with chronic lead poisoning.

PUBLIC HEALTH.

I. Ventilation.

1. What is the composition of Atmospheric Air when fairly pure? State proportions.

2. What proportion of Carbonic Acid may exist in the air of an occupied apartment consistently with good ventilation?

3. State how the proportion of Carbonic Acid in the air of an apartment is determined.

4. In a small-pox ward, what amount would be required—

(a.) of cubic space?

(b.) Of superficial area?

(c.) Of renewal of air?

II. Water Analysis.

Give the meaning of the following terms which are in use in chemical reports as to water for domestic use. State shortly under each head how these items are determined.

1. Saline ammonia.
2. Albuminoid ammonia.
3. Oxygen required.
4. Hardness.

XII. CLINICAL MEDICINE.

Written examinations on cases in wards of the Royal Infirmary.

University Bursaries.



I.—BURSARIES IN THE FACULTY OF ARTS.

No. of Foundation.	Year of Found.	Name of Founder.	Total Annual Income.	No. of Bursars.	For Years.	Annual Allowance to each Bursar.	Patrons.
I.	16	George Heriot.	£200 0 0	12	4	About £20 0 0	Governors of George Heriot's Hospital.
II.	16—	Do. do.	Regulated by No. of Candidates.	5	4	30 0 0	Do.
III.	1619	Archibald Johnston, Merchant in Edin.	11 2 2	1	4	11 2 2	Earl of Haddington.
IV.	1622	John Trotter of Mortonhall.	4 10 1	1	4	4 10 1	Trotter of Mortonhall.
V.	1626 1629 1640	Hugh Wight and David M'Call.	4 14 5	1	4	4 14 5	{ Town Council and Louis of Plean, two choices alternately.
VI.	1639	Mr Robt. Johnstone of London.	25 0 0	2	4	12 10 0	Johnstone of Annandale.
VII.	1639	Do. do.	25 0 0	2	4	12 10 0	Town Council.
VIII.	1642 1653	{ Mansie Weir, relict of R. Dobie, Mer., & Dean of Guild of Edin., and D. Jenkins, Mer., Edin.	5 11 1	1	4	5 11 1	Town Council.
IX.	1644	Jas. Dalgliesh, Merchant, Edin.	11 2 2	1	4	11 2 2	Do.
X.	1673	Jn. M'Morran, Merchant.	2 15 6	1	4	2 15 6	Do.
XI.	1678	John Penman, Bailie and Merchant, Edinburgh.	14 15 0	1	4	14 15 0	Society for the Benefit of the Sons of the Clergy.
XII.	1678	Hector Ford of Branxton.	33 6 8	3	4	11 2 2	Town Council.
XIII.	1687	Sir Andrew Ramsay of Abbotshall.	11 2 2	1	4	11 2 2	Do. and Ministers of Edinburgh.
XIV.	1696	Hepburn and Light body.	5 16 8	1	4	5 16 8	Town Council and Campbell of Aberuchill, alternately.
XV.	1698	Ad. Chrystie, Under Clerk of Session.	18 0 0	1	1	18 0 0	Faculty of Advocates.

I.—FACULTY OF ARTS—*continued.*

No. of Foundation.	Year of Found.	Name of Founder.	Total Annual Income.	No. of Bursars.	For Years.	Annual Allowance to each Bursar.	Patrons.
XVI.	1702	Thos. Bryson, Baillie and Merchant in Dunbar.	£10 0 0	2	4	£5 0 0	Ministers of the Presbytery of Dunbar.
XVII.	1703	James Pringle of Torwoodlee.	6 7 9		4	6 7 9	Pringle of Torwoodlee.
XVIII.	1714	Rev. Robert Brown, of Protestant Consistory at Zamose.	25 0 0		4	{ 15 0 0 10 0 0	Town Council.
XIX.	1723	Alexander Mitchell, W.S.	8 6 8	1	4	8 6 8	Livingston Learmonth of Parkhall.
XX.	1725	William Wardrope, Litster, Edinburgh.	5 11 1	1	4	5 11 1	Wardrope of Torbanehill.
XXI.	1726	David Christie, Wig-maker, Edinburgh.	8 6 8 About	1	4	8 6 8 About	Town Council.
XXII.	1734	Laurence Dundas, Professor of Humanity in the University of Edin.	42 0 0	2	4	21 0 0	Jas Dundas of Dundas, Robt. Dundas of Arniston, and Dundas of Carronhall, by turns.
XXIII. }	1764	Rev. J. Penman, Min. of Bothkennar.	5 8 0	1	4	5 8 0	Little Gilmour of Craigmillar.
XXIV.	1768	Thos. Fraser, Clerk in the office of City Clerk, Edinburgh.	36 0 0	2	4	18 0 0	The Provost, Dean of Guild, and Treasurer of Edin.
XXV.	1778	Jas. Shortt, Optician, Edinburgh	9 0 0	1	4	9 0 0	Earl of Morton.
XXVI.	1784	William Hume, Eastbarns, Dunbar.	16 0 0	2	4	8 0 0	Ministers of the Presbytery of Dunbar.
XXVII.	1784	Rev. Jas. Millar and Spouse.	24 0 0	1	4	24 0 0	Kirk-Session of Kippen.
XXVIII.	1809	Dr Donald Grant of London Street, in the parish of St Pancras, London.	180 0 0	2	4	90 0 0	Earl of Seafield, and James Mackenzie, W.S., and their reps., as Dr Grant's Trus ; whom failing the Sen. Acad.
XXIX.	1810	Rev. James Stewart.	30 0 0 About	3	3	10 0 0 About	Senatus Academicus.
XXX.	1821	Sir J. M'Pherson.	90 0 0	1	1	90 0 0	Senatus Academicus.
XXXI.	1838	Robert Blair, D.D., Barton St Andrews, Norfolk.	10 0 0	1	4	10 0 0	Principal and Professors of Humanity, Greek, Mathematics, Logic, and Metaphysics, and Moral Philosophy.
XXXII.	1846	John Jamieson, Esq., Edinburgh.	About 26 0 0	1	4	About 26 0 0	Principal, and two Professors of the University.
XXXIII.	1846	G. P. Bidder, C.E.	40 0 0	1	4	40 0 0	Senatus Academicus.
XXXIV.	1852	Wm. Lennie, Esq.	48 0 0	4	..	12 0 0	Town Council.
XXXV.	1853	John Bruce, Esq., Trinity Crescent, Edinburgh.	160 0 0	{ 1 4	{ 4 4	{ 40 0 0 30 0 0	{ Do.

I.—FACULTY OF ARTS—*continued.*

No. of Foundation.	Year of Found.	Name of Founder.	Total Annual Income.	No. of Bursars.	For Years.	Annual Allowance to each Bursar.	Patrons.
XXXVI.	1858	M'Diarmid Trustees.	£10 0 0	1	3	£10 0 0	Senatus Academicus.
XXXVII.	1860	Wm. Patrick, Esq., of Roughwood.	About	1	2	About £100	Principal and Professors in Arts.
XXXVIII.	1858	Edinburgh Ayrshire Club.	150 0 0	1	2	" £50	Edinburgh Ayrshire Club.
			65 0 0	5	4	{ 1 of £20 3 of £15	
XXXIX.	1863	Peeblesshire Society.	40 0 0	3	4	{ 10 0 0 15 0 0	Peeblesshire Society.
XL.	1864	Ed. Galloway Asso.	20 0 0	1	4	20 0 0	Ed. Galloway Asso.
XLI.	1864	Ed. Caithness Asso.	10 0 0	1	4	10 0 0	Ed. Caithness Asso.
			Interest of			About	
XLII.	1864	A.H. Rhind of Sibster	500 0 0	1	4	20 0 0	Edin. Caithness Asso.
XLIII.	1865	Mrs Margt Tyndall Bruce, of Falkland.	165 0 0	{ 3 3	{ 4 2	{ 35 0 0 20 0 0	{ Senatus.
XLIV.	1865	Horsliehill Scott Bursaries.	80 0 0	2	2	36 0 5	Do.
XLV.	1867	Miss Hannah Harrison, of Lasswade.	37 10 0	1		37 0 0	Do.
XLVI.	1867	Rev. John Spence	About			Above	Trustees of Rev. J. Spence.
XLVII.	1869	Edin. Border Counties Association.	100 0 0	2	4	50 0 0	Edinburgh Border Counties Assoc.
	1872		50 0 0	2		30 0 0	
						& About	
XLVIII.	1869	Argyllshire, Bute, and Western Isles Asso.	12 0 0	1	4	12 0 0	Argyllshire Association.
XLIX.	1870	Stewart of Ardvairlich.	About			About	
			14 8 0	1	4	14 8 0	Proprietor of the Estate of Ardvairlich.
L.	1870	Hugh Cowan.	About			About	Directors of Ayr Academy.
			30 0 0	1	2	30 0 0	
LI.	1871	Hugh Sibbald.	About				Trustees of Dr J. R. Sibbald.
			150 0 0	5	4	30 0 0	
LII.	1872	Angus Club.	25 0 0	1	4	25 0 0	Angus Club.
			About				
LIII.	1873	Earl of Zetland.	40 0 0	1	3	40 0 0	Trustees of Earl of Zetland.
			About				
LIV.	1873	The Grierson Trus.	80 0 0	3	3	26 13 0	Senatus.
LV.	1874	Upper Ward of Lanarkshire.	20 0 0	2	4	20 0 0	Upper Ward Assoc.
			About			About	
LVI.	1874	Johnstone of Hart-hope.	17 10 0	1	4	17 10 0	Senatus.
			About			About	
LVII.	1874	James Lambert.	40 0 0	1		40 0 0	Senatus.
LVIII.	1874	Fife, Clackmannan, & Kinross Assoc.	15 0 0	1	4	15 0 0	Fife, &c., Assoc.
			About			About	
LIX.	1875	Robert Marshall.	35 0 0	1	4	35 0 0	Senatus.
LX.	1876	J. Fotheringham of Heathpool.	About			About	
			40 0 0	2	4	40 0 0	Senatus.
			About				
LXI.	1877	Earl of Zetland.	165 0 0	4	3		Trustees.
LXII.	1878	Edin. East Lothian Assocs.	20 0 0	1	3	20 0 0	Association.
LXIII.	1878	{ Edin. University Endowment Asso. }	100 0 0	5	3	20 0 0	Senatus Academicus.
LXIV.	1878	Jas. Gillan.	105 0 0	3	3	35 0 0	Trustees of J. Gillan.
LXV.	1878	Dr Andrew Thomson.	100 0 0	4	4 & 2	25 0 0	Trus. of Dr Thomson.

CONDITIONS OF THE FOUNDATIONS AND PRESENT BURSARS.

I. These *Heriot Bursaries* are for Students unconnected with the Hospital, entering upon the regular Curriculum in Arts, who upon examination exhibit evidences of good scholarship. *Bursars*—THOMAS J. BOYD, GEORGE H. BOYD, HARRY RANKIN, ALEX. MORTON, ALEX. HUNTER, JAMES ROUSSEAU, W. D. MACKENZIE, G. H. BOYD, ALFRED TOD, HARRY RANKINE, THOS. ADAM, JAMES CRICHTON, W. ARROWSMITH, THOS. FRASER.

II. *Do.* Young men who, upon leaving Heriot's Hospital, are, after examination, declared hopeful scholars, and fit to follow any of the liberal professions, are entitled to a Bursary of £30 a-year for four years, with a view to attendance on the regular course in Arts. *Bursars*—HUGH FALCONER, PETER B. GUNN, THOMAS PORTEOUS, GEO. CHISHOLM, JOHN M'DONALD.

III. *A. Johnston Bursary.*—Each Bursar is entitled to hold the Archibald Johnston Bursary for four years, subject to the conditions that he shall pass such examination as may be required of Presentation Bursars, and shall proceed through the Curriculum in Arts, and pass the Departmental Examinations for M.A. appropriate to each year. No one is permitted to hold the Bursary along with any other Bursary in the University. The Bursar must attend the Classes in the Arts Curriculum. *Bursar*—WILLIAM NICOLL, 1876.

IV. *Trotter Bursary.* *Vacant.*

V. *Wight and M'Call Bursary.* *Vacant.*

VI. and VII. *R. Johnstone Bursary.*—By Ordinance No. 82, the holder of each of the four Robert Johnstone Bursaries is entitled to hold his Bursary for four years, subject to the condition that he shall pass such entrance examination as may be required of Presentation Bursars, and shall proceed through the Curriculum in Arts, and regularly pass the Departmental Examination required of Students proceeding to the degree of M.A. No person is allowed to hold any of these Bursaries along with any other Bursary in the University. *Bursars*—THOMAS CALVERT, 1876; WM. GRAHAM, 1877; JOHN SOMERVILLE, 1877; WM. M'GREGOR, 1877.

VIII. *Weir and Jenkins Bursary.*—For a Student in Arts, who must follow the Curriculum for the Degree. *Bursar*—JOHN LOGIE ROBERTSON, 1876.

IX. The *Dalglish Bursar* is entitled to hold the Bursary for four years, subject to the condition that he shall pass such entrance examination as may be required of Presentation Bursars, and shall proceed through the Curriculum in Arts in the University, and regularly pass the Departmental Examinations required of Students proceeding to the Degree of M.A. No person is allowed to hold the Bursary along with any other Bursary in the University. *Bursar*—WM. T. NORVAL, 1877.

X. *M'Morran Bursary.*—This Bursary is for a Student of Philosophy in the Arts Curriculum. *Bursar*—ROBERT ARTHUR, 1877.

XI. *Penman Bursar.*—ALEX. C. PRINGLE, 1876. The Bursar must attend the Classes in the Arts Curriculum.

XII. Each *Ford Bursar* is entitled to hold his Bursary for four years, subject to the condition that he shall pass such entrance examination as may be required of Presentation Bursars, and shall proceed through the Curriculum in Arts, and regularly pass the Departmental Examinations required of Students proceeding to

the Degree of M.A. No person is permitted to hold any of the Bursaries along with any other Bursary in the University. *Bursars*—JOHN DODDS ROBERTSON, 1876; JOHN L. ROBERTSON, 1877; GEORGE HOGG, 1877.

XIII. Each *Sir A. Ramsay* Bursar holds his Bursary for four years, subject to the condition that he shall pass such entrance examination as may be required of Presentation Bursars, and shall proceed through the Curriculum in Arts, and regularly pass the Departmental Examinations required of Students proceeding to the degree of M.A. No person is permitted to hold either of the Bursaries along with any other Bursary, Fellowship, or Scholarship of any Scottish University. *Bursar*—JOHN DOBIE, 1876.

XIV. The *Hepburn and Lightbody* Bursary was founded by Sir Colin Campbell, Lord Abernethy, and Sir Patrick Aikenhead, as executors of Sir Patrick Hepburn of Blackcastle. It is for a Student of Philosophy who follows the Curriculum in Arts. *Vacant*.

XV. The *Chrystie* Bursary is usually held for four years. The Bursar is taken bound to attend "the usual classes," and must produce yearly to the Faculty a certificate from the respective Professors of his due attendance, and the diligent prosecution of his studies. Candidates are referred for information to the Clerk to the Faculty of Advocates, Parliament House. *Vacant*.

XVI. The *Bryson* Bursars are first to enter the Humanity class: afterwards they are to pass through the rest of the classes in Arts until their Laureation; at which time, if judged by the ministers of the Presbytery of Dunbar fit for the study of Theology, they may continue for two years in Theology. An examination, which is annually repeated, takes place before the presentations are granted; and no payments are made to Bursars until production of certificates from the Professors in Arts whose classes they attend. *Bursars unknown*.

XVII. The *Pringle* Bursary was founded by James Pringle of Torwoodlee for a Bursar in Philosophy and Divinity. *Bursar*—

XVIII. The *Brown* Bursaries are payable to Bursars in the regular course of study in Arts. *Bursars*—JOHN H. CRAWFORD, 1875; D. M. FORRESTER, 1877.

XIX. The *Mitchell* Bursary is payable to a student during a regular course of four years in the Faculty of Arts, and during two years (if the Patron think fit) at the Divinity Classes.—JOHN FOSTER, 1877.

XX. The *Wardrope* Bursary is for the maintenance and support of a Bursar of Philosophy in the University. *Bursar*—OSWALD BELL, 1876.

XXI. This *Christie* Bursary may be held by a Student during a regular course of four years in the Faculty of Arts. *Bursar*—JAMES STUART, 1875.

XXII. *Dundas Bursaries*.—The Patrons are directed to prefer the Mortifier's near relations; failing such, those of the surname of Dundas; and failing such, any other persons at their discretion. By Ordinance No. 78 of the Universities' Commissioners, each person presented to either of the Dundas Bursaries is entitled to hold the same for four years as a Student of Arts, subject to the condition that he shall pass such entrance examination as may be required of Presentation Bursars, and shall proceed through the Curriculum in Arts, and shall regularly pass the Departmental Examinations required for M.A. *Bursars*—FREDERICK ROSS, 1874; JAMES GRAHAM, 1875.

XXIII. The *Penman* Bursary is payable to a "Student of Philosophy" for the

period of four years at the University of Edinburgh, in the regular Curriculum of Arts. *Bursar*—G. P. M'NEILL, 1876.

XXIV. The *Fraser Bursaries* are for maintaining two Students of the name of Fraser, till they finish their course and take the Degree in the Faculty of Arts, and for three years thereafter; they making their election whether to follow Divinity, Law, or Medicine. Two Classes at least must be attended each winter Session. Candidates should apply to the City Clerk, Council Chambers, Edinburgh. *Bursars*—DAVID MUNRO FRASER, 1874; ALEX. ROSS FRASER, 1875.

XXV. The primary object of the *Shortt Mortification* is the establishment of a Bursar of Mathematics. The Bursar must attend the Classes in the Curriculum in Arts. *Bursar*—D. R. KYD, 1876.

XXVI. The conditions of the *Hume Mortification* correspond with those of Bryson's, No. XVI., and the presentations and payments are made as in that case. *Bursar*—ROBERT SUTTER, 1875. *One Vacant*.

XXVII. *Millar Bursary*.—To be held by a Student intended for the Ministry in the Church of Scotland, during his Curriculum in the Faculty of Arts. *Bursar*—W. GORDON MITCHELL, 1876.

XXVIII. The *Grant Mortification* is for two Students of the University of Edinburgh, of the name of Grant. The holders must attend at least three Classes in the Faculty of Arts during each Winter Session, and certificates to that effect are required before their Bursaries are paid. Application for information may be made to Messrs Mackenzie, Innes, & Logan, W.S., 23 Queen Street, Edinburgh. *Bursars*—JAMES A. GRANT, 1877; WALTER A. GRANT, 1877.

XXIX. *Stewart Bursaries*.—Candidates must be in the second year of attendance in the Faculty of Arts. Bursars must attend Logic and the other Classes usually attended in that year, with a view to the Degree in Arts. *Bursars*—DAVID TRAIL, 1875; D. M. LAIRD, 1876. *One vacant*.

XXX. The *Macpherson Bursary* is intended for the benefit of Students who are natives of the Highlands. It is now bestowed on a Student at the commencement of the third year of his regular course in Arts, with a view to the Degree. It is tenable for two years, during which the Bursar must attend Classes in the Faculty of Arts. Candidates must have a knowledge of Gaelic. See further information at p. 354. *Bursar*—WILLIAM SUTHERLAND, M.A., 1877.

XXXI. The *Blair Bursar* must attend the Classes in the required order, and pass the Departmental Examinations necessary for the Degree of M.A. Applications to be made to the Professor of Logic and Metaphysics. *Bursar*—W. G. M'PHERSON, 1875.

XXXII. The *Famieson Bursary* is for the benefit of the sons of schoolmasters, farmers, mechanics, and labourers, and, primarily, other persons born and residing within any one of the following parishes—viz., Crawfordjohn, Crawford, united parishes of Lamington and Wandell, united parishes of Wiston and Robertson, Culter and Biggar. The Bursar must attend the usual Classes, and pass the Departmental Examinations necessary for the Degree in Arts. *Bursar*—ROBERT DICKSON, 1877.

XXXIII. Called the "*Jardine Bursary*," being founded by Mr Bidder, C.E., as a memorial of the munificence of Sir Henry Jardine to him, to which he owed the advantage of his education at the University of Edinburgh. Candidates must be

natives of Scotland. The Bursar must attend the Classes, and pass the Departmental Examinations necessary for the Degree in Arts. *Bursar*—HAY SHENNAN, 1876.

XXXIV. *Lennie Bursaries*.—Bursars must attend the Classes in the Arts Curriculum. Candidates should apply to the City Clerk, Council Chambers, Edinburgh. *Bursars*—WILLIAM WILSON, 1875; THOMAS RONALDSON, 1875; AMES RONALDSON, 1876; J. L. ROBERTSON, 1876.

XXXV. *Bruce Bursaries*.—Prior to the commencement of each Winter Session, five Students are presented yearly, the most distinguished of the five receiving the £40 Bruce Bursary. The Bursars must be in regular attendance on the Classes necessary for the Degree of Master of Arts. Candidates announce their names at the Council Chambers to the City Clerk. *Bursars*—ALEX. M. STALKER, 1875; R. W. PHILIP, 1875; JAMES H. OWER, 1875; ALEXANDER PHILIP, 1875; D. C. MACGREGOR, 1876.

XXXVI. The *M'Diarmid Bursary* is a memorial of the late John M'Diarmid, Esq., Editor of the *Dumfries and Galloway Courier*. Candidates must be natives of the county of Dumfries or the stewartry of Kirkcudbright. The Bursar must attend the Classes and Examinations necessary for the Degree in Arts. Applications regarding the Bursary to be made to H. Gordon, Esq., Dumfries. *Bursar*—D. M'NISH, 1877.

XXXVII. The *Patrick Bursaries* are for the assistance of those who have completed a course of education at any of the public schools or academies in the county of Ayr, where a course of Classical Study is pursued, and who are thus in a condition to apply for admission into the University. The Bursars must attend the Classes and Examinations necessary for the Degree in Arts, in the order required by the Faculty. See p. 197 of CALENDAR for 1865-66. *Bursars*—A. G. YOUNG, 1876; A. P. GOUDY, 1876.

XXXVIII. *Ayrshire Club Bursaries*.—Awarded after competitive examination to natives of Ayrshire requiring aid, and tenable during the Curriculum in Arts, on condition of regular attendance at the Classes, with a view to the Degree. Information will be afforded by the Secretary of the Club, Mr J. S. Cooper, 1 Alva Street. *Bursars*—JOSEPH PATRICK, J. L. ROBERTSON, W. WHITE, W. A. WILSON, ROBERT H. FISHER (2 years).

XXXIX. *Peeblesshire Bursaries*.—Candidates must be natives of Peeblesshire, must have been educated at a school or schools within the county of Peebles, and must pursue the Curriculum of Arts, at the University, with a view to the degree in Arts. Schedules will be supplied to applicants by the Secretary of the Society, Mr T. Gibson, 18 Palmerston Place. *Bursars*—ROBERT MITCHELL. *Two Vacant*.

XI. *Galloway Bursary*.—Awarded after competitive examination to a Student about to enter the Curriculum in Arts, with a view to a Degree in Arts. Application to be made to W. Guthrie, Esq., Sheriff Sub., Glasgow.

XLI. and XLII. *Caithness and Rhind Bursaries*.—Bursars must attend the Classes in the Arts Curriculum. Apply to Andrew Snody, Esq., S.S.C., Edinburgh, Secretary to the Association.

XLIII. *Bruce of Grangehill and Falkland's Bursaries*.—Three of these Bursaries, of the annual value of £35, are awarded after competitive examination to Students of the *second* year in their course of study for a Degree in Arts; and three others, of the annual value of £20, to Students entering the *first* year of the Arts Curriculum. *Bursars*—J. C. LAMBERT, 1875; J. R. MACDONALD, 1875; STEWART H. CAPER, 1876; W. C. BARLOW, 1876; F. W. STEWART, 1877; JAMES GARDNER, 1877.

XLIV. *Horsliehill-Scott Bursaries*.—Open to Students in the *third* year of their course for a Degree in Arts, and tenable for two years. The examination is in Classics, Mathematics, and Logic and Metaphysics. Deed of Foundation, at p. 208 of CALENDAR for 1866-67. *Bursars*—JOHN W. M'KAIL, 1876; ROBERT MITCHELL, 1877.

XLV. The *Harrison Bursary* is open to Students in the *third* year of their course in the Faculty of Arts, with a view to a degree, and is tenable for two years. It is to be awarded to the competitor who shall show the greatest proficiency in Classics, Mathematics, and Logic and Metaphysics. See Deed of Endowment, p. 231 of CALENDAR for 1867-68. *Bursar*—JAMES OLIPHANT, 1878.

XLVI. By the regulations of the Trustees, the *Spence Bursaries* are open to Students under twenty-one about to enter on the second or third Session of their course who are proceeding to graduation within two years after their appointment. After graduation, the Bursars may proceed to the study of their profession, or else devote themselves to special study in Theology, Philosophy, Science, or History. They must give attendance at this University on at least one University Class on the special subject to which they devote themselves. Further information will be afforded by Mr J. Patullo, writer, Dundee.

XLVII. *Border Counties and Sir Walter Scott Bursaries*.—Candidates must be natives of the counties of Roxburgh, Berwick, or Selkirk, and must attend the classes necessary for a Degree in Arts. Application to be made to Mr T. Usher, Sheriff Court House, Edinburgh. *Bursars*—JOHN CAIRNS, G. T. POLSON, ROBERT G. RODGER.

XLVIII. *Argyllshire Bursary*.—To be held by natives of Argyllshire, Bute, or Western Islands. The holder must attend the classes necessary for a Degree in Arts. Application may be made to Donald Beith, Esq., W.S., 41 Castle Street, Edinburgh. *Bursar*—COLIN MACDONALD, 1877.

XLIX. *Ardvoirlich Bursary*.—Open to Students of Arts, natives of the parishes of Comrie, Balquhider, Callander, and Killin. The holder must attend classes necessary for a Degree in Arts. Applications to be made to the Proprietor of the estate of Ardvoirlich, or his Factor. Candidates are examined by a Board, of which the Minister of Comrie is chairman. See Deed of Foundation at p. 275 of CALENDAR for 1870-71. *Bursar*—JOHN M'AINSH, 1876.

L. *Cowan Bursary*.—Candidates must be about to enter the Curriculum in Arts. Information will be afforded by W. F. M'Cubbin, Esq., Ayr. *Bursar*—WM. WHYTE, 1876.

LI. *Sibbald Bursaries*.—These Bursaries bestowed on Students entering the University for the first time, and who do not hold any other Bursary or Scholarship.

Candidates must be sons of duly registered medical men practising, or who have practised in Scotland, or sons of householders in Edinburgh. Two Classes must be attended at the University each year. Certificates of good character from clergymen or householders necessary. The competition for the Bursaries is held at the commencement of each winter Session, and includes Latin, Elementary Greek, Elementary Mathematics, and English. Application to be made to Messrs Mackenzie, Innes, & Logan, W.S., 23 Queen Street, Edinburgh. *Bursars* ALEX. MARTIN, 1874; R. BRUCE LOCKHART, 1875; W. L. ROBERTSON, 1876; SCOTT MONCRIEFF PENNEY, 1877; W. COTTON, 1877.

LII. *The Angus Club Bursary*.—For particulars application may be made to the Secretary of the Club, Mr Burness, 11 Drummond Place. *Bursar*—F. W. STEWART.

LIII. *Orkney and Zetland Bursary*.—Open to first year's Students (male or female), natives, or children of parents who are natives of the County of Orkney and Zetland. It is tenable for three years. The Bursar must attend the Classes in the Curriculum in Arts, with a view to a Degree. Applications to be sent to Messrs H. G. & S. Dickson, W.S., Dundas Street, Edinburgh. The Deed of Foundation will be found in CALENDAR for 1873-74, p. 329. *Bursar*—JAMES MARWICK, 1877.

LIV. *Grierson Bursaries*.—Four Bursaries of £20 each, awarded annually in November, under the patronage of the Senatus. By the scheme of allocation arranged with the Trustees, they are restricted in the first place to natives of either of the parishes of Crawford or Leadhills, provided that any such shall lodge an application with the Secretary of the Senatus on or before the 1st of October in each year; but before any such preferential Candidate can be appointed, he must pass an examination, satisfactory to the Senatus, in Elementary Latin, English, and Arithmetic, and also satisfy the Senatus that he is steady and well behaved, that he has shewn himself a diligent scholar, and that he requires pecuniary aid to enable him to pursue his studies. In the event of more than one preferential Candidate, the examination is competitive among such candidates. If no preferential Candidates announce themselves to the Secretary of the Senatus before the 1st of October, the Bursary is for that year thrown open for competition to all Students then intending to enrol in the University for the First Session of the Curriculum in Arts, the subjects of examination being those prescribed for Bursars of the First Year. The Grierson Bursary is tenable for four years, provided that the Bursar continues regularly to follow the Curriculum in Arts during that period; and if he should complete his curriculum within three years, the Senatus may continue it for one other year, provided the Bursar pursues further his studies in the higher classes of the Curriculum in Arts, or in one of the Faculties of the University, and that they are satisfied with his progress and conduct. See Note of Trust Disposition of Founder at p. 335 of CALENDAR for 1873-74, and p. 368 of the CALENDAR for 1877-8. *Bursars*—JOHN M. WHYTE, 1875; J. R. N. M'PHAIL, 1875; WILLIAM FRASER, 1876; ROBERT DICKSON, 1877.

LV. *Lanarkshire (Upper Ward of) Bursaries*.—Bursars must attend the Classes in the Arts Curriculum. *Bursar*—GILBERT THOMSON, 1874.

LVI. *Johnstone of Harthope Bursary.* Natives of Moffat, Peebles, and Students of the name of Alexander or Johnstone preferred. *See* Deed of Foundation, at p. 350 of CALENDAR for 1875-76. *Bursar*—THOMAS JOHNSTONE, 1876.

LVII. *Lambert Bursary.*—This Bursary will not be instituted until after the death of an annuitant. *See* Deed of Foundation, at p. 342 of CALENDAR for 1875-1876.

LVIII. *Fife and Kinross Bursary.*—Open only to Students from Fife, Clackmannan, and Kinross. Applications may be made to the Secretary, W. B. Glen, 6 North St Andrew Street, Edinburgh.

LIX. *Marshall Bursary.*—Restricted in the first place to relatives of Founder, next to Students of the name of Marshall, and natives of West Lothian. *See* Deed of Foundation, at p. 347 of CALENDAR for 1876-77. *Bursar*—R. LAW, 1876.

LX. *Fotheringham and Forrest Bursaries.* Relatives or namesakes of the Founder, then such as are of the name of Forrest, to be preferred. *Bursars*—P. C. ROBERTSON, 1877; J. G. TART, 1877.

LXI. *Earl of Zetland's Bursaries.*—For Deed of Foundation of these Bursaries, *see* p. 373 of CALENDAR for 1877-78. Application may be made to Messrs Dickson, W.S., Castle Terrace.

LXII. *Edinburgh East Lothian Association's Bursary,* will be filled up in October 1878. Open to any lads educated at any public school in East Lothian, and who, during three years immediately preceding the examination, have not attended any school out of the country, or any university.

LXIII. *Edinburgh University Endowment Association's Bursaries.*—Three of these bursaries are to be open to competition at the commencement of session 1878-79, and other two at the commencement of 1879-80. They are open to Students entering the Faculty of Arts for the first time, and the Examination is held at the annual Arts Bursary Competition. Bursars must proceed through the Curriculum in Arts, and pass the Examinations for the Degree of M.A. Cannot be held with any other Bursary. *See* Minute of the Endowment Association, among Deeds of New Foundations.

LXIV. *Gillan Bursaries.*—Founded in 1878 by James Gillan, Forres. Three of £35 each, two open to natives of Forres, and one to natives of Dyke. Candidates must attend the Arts Curriculum in the University of Edinburgh, and afterwards the New College, Edinburgh, with a view to the ministry of the Free Church. For particulars application may be made to Messrs R. & R. Urquhart, Solicitors, Forres.

LXV. *Thomson Bursaries.*—Candidates of the name of Thomson or Traquair, or natives of the town or county of Dumfries, or of the city of Edinburgh, preferred. Apply to Messrs Traquair, Dickson, & Maclaren, W.S., 11 Hill Street

II.—BURSARIES IN FACULTY OF DIVINITY.

A.—PRESENTATION BURSARIES.

No. of Foundation.	Year of Found.	Name of Founder.	Total Annual Income.	No. of Bursars.	For Years.	Annual Allowance to each Bursar	Patrons.
I.	1703	Agnes Nairne.		1	1	..	Senatus Academicus,
II.	1715	Sir James M'Lurg of Vogrie, sometime Dean of Guild of Edinburgh.	£8 6 8	1	4	£8 6 8	Dean of Guild of Edinburgh, and Andrew Webster, S.S.C., alternately.
III.	1764	Rev. John Penman, Minister of Bothkennar.	8 0 0	1	4	8 0 0	Little Gilmour of Craigmillar.
IV.	1766	Rev. Robert Alexander, Minister of Girvan.	About 19 0 0	1	4	About 19 0 0	Kirk-Session of Girvan and Presbytery of Ayr.
V.	1838	Robert Blair, D.D., Barton St Andrews, Norfolk	14 8 0	1	4	14 8 0	Governors of George Heriot's Hospital, Principal of the University, Minister of the High Church, & Minister of New Greyfriars' Church.
VI.	1838	Do. Do.	About 23 0 0	1	4	About 23 0 0	The Principal, and Profs. of Hebrew, Divinity, Church History.
VII.	1838	J. Stewart Hepburn of Colquhalzie, Esq.	13 2 6	1	3	13 2 6	Committee of the Presbytery of Edin.
VIII.	1858	Do. Do.	13 2 6	1	3	13 2 6	Do.
IX.	1864	Do. Do.	13 2 6	1	3	13 2 6	Do.
X.	1878	Dr Andrew Thomson	100 0 0	4	4	25 0 0	Trus. of Dr Thomson.

I. In abeyance at present.

II. The *M'Lurg Bursary* is tenable for four years at the Theological Classes.
Bursar.—Vacant.

III. The *Penman Bursary*—ALEXANDER MACKENZIE, resigned. *Vacant.*

IV. This Bursary consists of the interest of £420, lent on heritable security, and of £75, 17s. of accumulated interest. It must be held by a Student from the parish of Girvan, presented by the Session; whom failing, by one within the Presbytery of Ayr, to be appointed by the Presbytery. *Bursar*—GILBERT CLARK.

V. The *Blair Bursary* can be held only by a young man who has been brought up in George Heriot's Hospital, and has become a Student of Divinity in the University of Edinburgh. The amount depends on the rate of dividend payable on the stock in which the foundation money is invested. *Vacant.*

VI. To be applied for the benefit of a Student of Divinity, whether a graduate or not. *Bursar*—WILLIAM ROSS, M.A.

VII., VIII., and IX. The sums attached to these Bursaries are payable to Divinity Students towards the expense of their education at the University of

Edinburgh. Each is tenable for three years. *Bursars*—1 and 2, JOHN F. W. GRANT, M.A., and ARCH. TURNBULL, M.A., equal. 3. PETER DEWAR, M.A. In December 1877 two Hepburn Prizes were also given for the best Essays on "The language of the Apocalypse of John compared with that of the Fourth Gospel." First prize, GEORGE FERRIES, M.A., £18; second, J. W. FLEMING, £12.

X. For the *Thomson Bursaries* application may be made to Messrs Traquair, Dickson, & Maclaren, 11 Hill Street. Candidates of the name of Thomson or Traquair, or natives of the town or county of Dumfries, or of the city of Edinburgh, preferred.

B.—COMPETITION BURSARIES, Open to Graduates in Arts, or to Students who have passed the necessary Examinations for the Degree of M.A., but have deferred their Graduation with a view to Honours.

No. of Foundation.	Year of Found.	Name of Founder.	Total Annual Income.	No. of Bursars.	For Years.	Annual Allowance to each Bursar.	Patrons.
I.	1646	Buchanan of that Ilk.	£20 16 8	2	3	£10 8 4	Town Council.
II.	1666	William Struthers.	13 17 9½	1	3	13 17 9½	Do.
III.	1685	Archibald Leighton.	7 10 0	1	3	7 10 0	Do.
IV.	1687	Andrew Ramsay and Sir Andw. Ramsay of Abbotshall.	16 13 4	1	3	16 13 4	Do.
V.	1695	King William III.	50 0 0 About	2	2	25 0 0 About	Lords of the Treasury
VI.	1867	Miss Mary Ettles of Inverness.	£126 0 0	3	3	£42 0 0	Senatus.
VII.	1873	Grierson of Ogscastle's Trustees.	80 0 0	3	1	26 13 4	Senatus.
VIII.	1878	Mrs Isabella Webster.	160 0 0	3	3	Two of £60 & one of £40.	Senatus.

I. By Ordinance, No. 79, of the Scottish Universities' Commissioners, and subsequent Order of her Majesty in Council 1868, each of the Buchanan Bursaries is open for competition to all Masters of Arts of any of the Universities of Scotland, or to Students who have passed the necessary Examinations for the Degree of M.A., but have deferred their Graduation with a view to Honours, entering on their first or second Session in the Faculty of Divinity in the University of Edinburgh. No person is admissible to competition who has for more than one Session been a Student in the Faculty of Divinity in any of the Scottish Universities. Each Bursar holds his Bursary for three years, subject to this condition, that he shall, during that period, give regular attendance, as a Student of Theology, in the University. If it appears to the Senatus Academicus desirable, for the purpose of distributing the benefits of competitive Bursaries in Theology among Students of different years, it is lawful, for that purpose only, to appoint a Student for a shorter period. No person can hold the Bursary along with any other Bursary, Fellowship, or Scholarship in any Scottish University. *Bursars*—CHARLES STEPHEN, 1876; WM. L. SIME, M.A., 1877.

II. By Ordinance, No. 80, of the Universities' Commissioners, and subsequent Order in Council, the regulations for this Bursary are the same as those for the Buchanan Bursaries. *Bursar*—THOMAS HARKNESS GRAHAM, M.A., 1877-8, resigned. *Vacant*.

III. By Ordinance, No. 85, of the Univ. Com., and subsequent Order in Council, the regulations for this Bursary are the same as those for the Buchanan Bursaries. *Bursar*—DUNCAN M'ALLISTER DONALD, M.A.

IV. By Ordinance, No. 81, of the Univ. Com., and subsequent Order in Council, the regulations for this Bursary are the same as those for the Buchanan Bursaries. *Bursar*—JAMES COUPER, 1876.

V. By Ordinance, No. 76, of the Universities' Commissioners, and subsequent Order in Council, each King William Bursary is open to competition to all Masters of Arts of any of the Universities of Scotland, or Students who have passed the necessary examinations for the Degree of M.A., and who have attended for one Session, and no more, in the Faculty of Divinity in the University of Edinburgh: Provided that no person shall be a competitor who has attended for one or more Sessions in the Faculty of Divinity in any other of the Scottish Universities. The examinations in the competition shall be conducted by the Professors in the Faculty of Divinity in the University. Each Bursar shall hold his Bursary for two years, subject to the condition that he shall, during that period, give regular attendance as a Student of Theology in the University. No person shall hold either of the Bursaries along with any other Bursary, Fellowship, or Scholarship of any Scottish University. When the two Bursaries fall vacant at one time, one Bursar shall be appointed for two years, and the other for one year. *Bursars*—J. W. FLEMING, M.A.; THOMAS HARKNESS GRAHAM, M.A. *One vacant*.

VI. Founded in memory of her brother, J. Ettles, Esq., of Havannah. Open to those who have passed all the examinations for M.A., and are in the first year of their theological course. Cannot be held with any other Bursaries or Scholarships. *See* Deed of Foundation in CALENDAR for 1867-68. *Bursars*—GEORGE GARDINER, M.A., 1875; GEORGE M. MACKIE, M.A., 1876; WILLIAM ALLARDYCE, M.A., 1877.

VII. As in the case of the Faculty of Arts (see No. LIII.), a student from the parishes of Crawford or Leadhills, is, if found duly qualified in respect of attainments, appointed to a Bursary in his first year, and holds it (unless he has failed to show himself a diligent student) to the end of his Theological curriculum. Failing any student from those favoured parishes, the Bursary or Bursaries will be thrown open to competition, but the winner only holds his Bursary for one year in each case. In the second and third years a student from Crawford or Leadhills has again a preference, but holds the Bursary for one year only. *See* p. 372 of CALENDAR, 1877-8. *Bursars*—third year, GEORGE FERRIES, M.A.; second year, JOHN LAMB, M.A.; first year, ALEXANDER MACKENZIE, M.A.

VIII. Founded by Mrs Isabella Webster, 38 Heriot Row, Edinburgh, in memory of her husband, George Webster, Esq. There are three Bursaries,—two of £60, and one of £40, open to Students of Divinity in connection with the Church of Scotland in their first year, who have successfully passed all their Examinations for the degree of M.A. in any Scottish University, whether they have actually graduated or not. Each is tenable for three years. *See* Deed of Foundation in CALENDAR for 1878-9. Only one is open for 1878-9.

C.—PRESENTATION BURSARIES, Open only to Graduates or Students who have passed the necessary Examinations for the Degree of M.A., but have deferred their Graduation with a view to Honours.

No. of Foundation.	Year of Found.	Name of Founder.	Total Annual Income.	No. of Bursars.	For Years.	Annual Allowance to each Bursar.	Patrons.
I.	1695	Robert Bayne of Pitcairley.	£25 0 0	1	3	£25 0 0	Rev. Professor Crawford's Trustees.
II.	1695	James Nairne.	16 13 4	1	3	16 13 4	Prof. of Divinity.

I. This formerly belonged to Ferguson of Raith, and was sold by him to the late Principal Lee; and by Principal Lee's representatives to Professor Crawford. By Ordinance, No. 71, of the Universities' Commissioners, and subsequent Order in Council, the following are the regulations as to this Bursary:—No person shall be presented unless he be a Master of Arts of a Scottish University. Each Bursar shall hold the Bursary for three years, subject to the condition that he shall, during that period, give regular attendance as a Student in Theology in the University of Edinburgh. No person shall hold the Bursary along with any other Bursary, or with any Scholarship in the University. *Bursar. Vacant.*

II. See Ordinance, No. 67, of the Universities' Commissioners, and subsequent Order in Council. *Bursar*—DAVID JAMIE, M.A., 1876.

D.—BURSARIES gained in Faculty of Arts. the holders of which are at liberty to study in the Faculty of Divinity.

No. of Foundation.	Year of Found.	Name of Founder.	Total Annual Income.	No. of Bursars.	For Years.	Annual Allowance to each Bursar.	Patrons.
I.	1871	The Sibbald Trustees.	About 150 0 0	5	4	About 30 0 0	The Trustees of Dr J. R. Sibbald.

I. See under Bursaries in Arts, No. LI. Sibbald Bursaries.

III.—BURSARIES IN THE FACULTY OF LAW.

No. of Foundation.	Year of Found.	Name of Founder.	Total Annual Income.	No. of Bursars.	For Years.	Annual Allowance to each Bursar.	Patrons.
I.	1871	The Sibbald Bursaries.	About 150 0 0	5	4	30 0 0	Trustees of Dr J. R. Sibbald.
II.	1873	The Grierson Trustees.	About 80 0 0	3	1	26 13 4	Senatus.
III.	1873	The Cairns Bursary.	About 20 0 0	1	1	20 0 0	Senatus.
IV.	1878	Dr Andrew Thomson.	100 0 0	4	4	25 0 0	Trus. of Dr Thomson.

I. These Bursaries may be held during the Curriculum in Law. See p. 330.

II. There are three Grierson Bursaries, each of the value of £26, 13s. 4d. annually. Deserving students, from the parishes of Crawford or Leadhills, applying to the Secretary of the Senatus, on or before the 22d day of October, are entitled to preference, if they satisfy certain conditions; and if the applicant is commencing his first Winter Session of the Law Curriculum he will be entitled to hold the Bursary for three years.

Failing preferential candidates the Bursaries will be tenable only for one year, and will be awarded among candidates who have attended one year in the Faculty of Arts in some University, and have applied as above-mentioned to the Secretary of the Senatus. 1. In the case of candidates commencing their first Winter Session in Law—by competitive examination in Latin and Moral Philosophy. 2. In the case of candidates commencing their second Winter Session—to the most distinguished law student of that standing, who has passed satisfactorily in Latin and Moral Philosophy. 3. In the case of candidates commencing the third Winter Session of the Law Curriculum—to the most distinguished law student of that standing who has passed satisfactorily in Latin, Moral Philosophy, and Logic. *Bursars*—GEORGE LEA THORNE, JOHN CRAIGIE, GEORGE LAW.

III. The Candidates for the Cairns Bursary, which is tenable only for one year, and is not subject to any preferences, are subject to the same conditions as those for the Grierson Bursary. The Bursary is open to Students who have completed one year in the Law Faculty. *Bursar*—JAMES DUFF.

IV. For the *Thomson Bursaries* application may be made to Messrs Traquair, Dickson, & Maclaren, 11 Hill Street. Candidates of the name of Thomson or Traquair, or natives of the town or county of Dumfries, or of the city of Edinburgh, preferred.

IV.—BURSARIES IN FACULTY OF MEDICINE.

No of Foundation.	Year of Found.	Name of Founder.	Total Annual Income.	No. of Bursars.	For Years.	Annual Allowance to each Bursar.	Patrons.
I.	1864	Dr Abercrombie, Cape Town.	£20 0 0	1	4	£20 0 0	Governors of Heriot's Hospital.
II.	1871	Dr J. R. Sibbald's Trustees.	About 150 0 0	5	4	30 0 0	Trustees of Dr J. R. Sibbald.
III.	1873	Dr Mackie's Trustees.	About 40 0 0	2	4	20 0 0	Trustees of Dr Mackie, Greenock.
IV.	1873	Mr Grierson of Ogccastle's Trustees.	About 80 0 0	4	3	20 0 0	Senatus.
V.		Mrs Bruce of Grangehill and Falkland.	25 0 0	1	1	25 0 0	Senatus.
VI.	1878	Dr Andrew Thomson	200 0 0	8	4	25 0 0	Trus. of Dr Thomson.

MEDICAL BURSARIES.

I. Open by competition, in the event of more than one candidate coming forward, to Students who have been brought up in Heriot's Hospital, and have

finished their course as Heriot Bursars, to aid them in further prosecution of their studies for any of the learned professions. Students in the Faculty of Medicine to be always preferred. Candidates are referred to the Treasurer of Heriot's Hospital, 11 Royal Exchange, Edinburgh.

II. These Bursaries may be held during the Curriculum in Medicine. See p. 330, for the conditions under which they are bestowed.

III. These Bursaries are expected shortly to be instituted by the Trustees of the late Dr Mackie.

IV. Candidates from the parishes of Crawford or Leadhills, about to commence their Medical Curriculum, who have passed in the University of Edinburgh a satisfactory examination in the preliminary subjects required by Article I. of the Ordinances from Candidates for Graduation in Medicine, who have been diligent students, and require pecuniary aid to enable them to pursue their studies, have a preference. In the case of more candidates than one the Bursary shall be awarded to the best qualified, on examination in the subjects above referred to.

Failing the appointment of preferential candidates, the Bursary shall be tenable for periods of one year only, during four successive years, in manner following, viz. :—The 1st year Bursary shall be awarded to the student who has taken the highest place in the whole subjects required by Ordinance for the preliminary examination which has to be passed before the first professional examination. The 2d year Bursary shall be awarded by competitive examination in the subjects of Chemistry, Botany, and Natural History. The 3d year Bursary shall be awarded by competitive examination in the subjects of Anatomy and Physiology. The 4th year Bursary shall be awarded by competitive examination in the subjects of Pathology and Materia Medica. *Bursars*—J. M. CHISHOLM, 1875; FRANK INNES, W. T. ORR, 1877; T. P. A. STUART.

V. This Bursary, which is given by the Senatus out of the surplus revenue of the Bruce Bursary and Scholarship Fund, is open by competition to Students who have reached the end of their third Winter Session. Subjects of Examination—Materia Medica and Pathology. *Bursar*—ROBERT ROBERTSON, 1877.

VI. Two of these Bursaries will be awarded in each year to Students commencing their first Winter Session. The examination will be held in October. Candidates of the name of Thomson or Traquair, or natives of the town or county of Dumfries, or of the city of Edinburgh, have a preference. For subjects of examination and other particulars, application may be made to Messrs Traquair, Dickson, & Maclaren, W.S., 11 Hill Street, Edinburgh, the agents of the Trustees.

University Prizes.

I. FACULTY OF ARTS.

I.—THE BRUCE OF GRANGEHILL AND FALKLAND'S PRIZE IN THE CLASS OF LOGIC AND METAPHYSICS.

This Prize of £20, awarded to the most distinguished student in this class, "on such conditions and competition as the Professor may direct, and on his decision," for excellence in the study of Logic and Metaphysics, was founded in 1865, by Mrs Tyndall Bruce of Grangehill and Falkland, in commemoration of John Bruce, Professor of Logic and Metaphysics in the University, 1774-1786.

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|-------|---|----------|
| 1866. | Thomas M. Lindsay, M.A. | |
| 1868. | George Forbes, M.A. | |
| 1869. | Charles B. Bright M'Laren, M.A. | |
| 1870. | Robert Adamson, M.A. | |
| 1871. | { Robert Campbell, M.A.
Matthew Robertson, B.A. (Lond.) } | } equal |
| 1872. | { D. M. Ross, M.A.
Donald Ross, M.A. } | } equal. |
| 1874. | D. G. Ritchie, M.A. | |
| 1873. | { Leslie C. Elmslie, M.A.
Alfred Mummery, M.A., D.Sc. } | } equal. |
| 1875. | William R. Sorley, M.A. | |
| 1876. | { Richard Burdon Haldane, M.A.
Prasanna Kumár Ráy, D.Sc. } | } equal. |
| 1877. | Alexander M. Stalker, M.A. | |
| 1878. | Andrew Seth, M.A. | |

II.—THE GRAY PRIZES.

The Gray Prize Essay Fund was instituted in 1860, in terms of the will of Simon Gray, Esq., of Mornington Crescent, London. It is under the management of Five Trustees, of whom W. Ritchie, D.D. of Dunse is the Secretary.

The Trustees of Gray's Prize Essay Fund offered in 1876-7 two prizes, as follows:—One of £20 for the best Essay, and £10 for the second best Essay, on "Memory, in its relation to the Moral Powers of the Human Mind." The prize of £20 was awarded to John Chisholm, Perth; that of £10 to William Myrtle, jun., Edinburgh. The Trustees offer this year a prize of £20 for the best Essay, and £10 for the second best Essay on "The Intemperance of our Country, the Causes of its Prevalence, and the Means to be Employed for its Suppression." The Competitors must be Students of the Edinburgh University, who at the commencement of the Session (1877-1878) were not of more than

three years' standing from their first matriculation in a University Curriculum. Each Essay, which must not exceed what may be read in two hours, must have a Motto prefixed, also a sealed envelope, bearing the motto and enclosing the name and address of the Author, and be forwarded to the Secretary on or before the 1st September next. The Trustees will announce the Award in the beginning of November, but if none of the Essays submitted be judged of sufficient merit, they reserve to themselves liberty to decline an Award of the Prizes, and to offer the sums for future competition. The successful Essays will be retained as the property of the Trustees.

III.—THE NEIL ARNOTT PRIZE FOR EXPERIMENTAL PHYSICS.

This Prize consists of the annual proceeds of a sum of £1000 presented to the University by Dr Neil Arnott of London. It is awarded to the Candidate who shall pass with the greatest distinction the Ordinary Examination in Natural Philosophy for the Degree of M.A. Candidates must have been Medical Students of this University during either a summer or a winter session; and the successful candidate must continue a medical student at this University during the next Winter Session, failing which, the prize is to be forfeited and assigned to the competitor next in merit. No student can appear for examination after the completion of his third *annus medicus*; no candidate shall be allowed to offer himself more than once.

In the event of a competitor, qualified as above, not coming forward, the prize will be awarded to a Candidate for a Degree in Arts who shall pass with most distinction the ordinary examination in Natural Philosophy. The next award will be made in October 1878. (*See* Deed of Foundation at p. 274 of CALENDAR for 1870-71.)

1869. Robert M. Gunn.

1873. James Crabb.

1870. Thomas D. Wilson.

1874. { David Grant. } equal.
 { George Ogilvie. }

1871. Alfred Daniel.

1875. William Raitt.

1872. J. A. Paton.

1876. William Thomson.

1877. Archibald L. Macleish, M.A.

IV.—DR MUIR'S PRIZES IN SANSKRIT AND HEBREW.

At the end of March 1879, two prizes, one of £10 and one of £5, will be offered for Competition to students who have attended the Sanskrit Classes in 1876-77 and 1877-78.

Students who have read Sanskrit with a Professor or Teacher previous to the above named Sessions, will be excluded from competing for these prizes. The higher prize will be awarded to the best Student, and the lower prize to the next in merit, but no distribution of prizes will take place if the Competitors fail to show a satisfactory knowledge of the subjects taught in the Sanskrit Class.

The right to award both, or only one of the prizes, whether the higher or lower, is reserved to the decision of the Professor.

The subjects of examination will be—(1.) The V.-VI. Books of the *Raghuvansa*. (2.) The *Meghadūta*. (3.) The III. Book of the Law Book of Manu. (4.) Translation from English into Sanskrit, both in prose and in verse. (5.) Questions in Grammar, Literature, and Comparative Philology.

Dr Muir offers a prize of £100 to the most distinguished Candidate who shall first take the Degree of D.Sc. in the department of Sanskrit and Comparative Philology.

Dr Muir also offered a prize of £100 for proficiency in Hebrew Scholarship, and in the critical study of the Old Testament, open to Graduates in Arts of any of the Scottish Universities of not more than 6 years' standing at November 1877. The Examination was held at Glasgow, and the Prize was divided between John Cullen and James R. Gillies.

V.—THE SCOTT AND DUNBAR PRIZE.

Founded in 1872 by the Rev. Hew Scott, D.D., of Anstruther Wester for encouraging the study of the Greek Language in the Greek Class in the University of Edinburgh—and to be awarded to “the most deserving and learned student in the Greek Classes”—will be awarded at the end of session 1878-79, as may be directed by the Principal and the Professors of Divinity, Greek, and Humanity. *See* Deed of Foundation at p. 331 of CALENDAR 1873-74.

1877. Samuel Gibson.

1878. W. R. Hardie.

II. FACULTY OF LAW.

THE FORENSIC PRIZE.

Is awarded annually to the Candidate who shall pass with the greatest distinction the examination in the subjects for a Degree in Law.

1876. James Macbride Dickson.

1878. J. M. Gun, M.A., LL.B.

III. FACULTY OF MEDICINE.

I.—THE HOPE CHEMISTRY PRIZE.

This prize was founded by the late Professor Thomas C. Hope in 1844, for the promotion of the Study and Science of Chemistry in the University, in such manner as the Principal and Professors may appoint. It has, accordingly, been resolved that it is to be competed for biennially, at a special examination open to all Students of the University who have worked for eight months or for two Summer Sessions, in the Chemical Laboratory of the University, and who are not more than twenty-five years of age. The examination is to be on Chemistry, to be conducted by the Professor of Chemistry, in conjunction with two

Examiners appointed by the Senatus, and to be practical as well as written. The successful Candidate is to spend the succeeding academical year in working in a Laboratory or Laboratories, under conditions approved by the Senatus, and to receive £100, in such sums, and at such intervals, as may be appointed by them.

No person can hold the Hope Prize more than once.

A Competition for this Prize will be held in July 1879; Candidates must send in their names to the Professor of Chemistry prior to 27th June 1879.

1871. Alexander Watt.

1874. Robert Milner Morrison.

1875. Aghornath Chattopadhyaya.

1877. John Gibson.

HOPE PRIZE SCHOLARSHIP.

“The Hope Prize Scholarship” has been instituted in connection with the Chemical Laboratory of the University, under the following conditions and regulations:—

1. The scholarship shall consist of the free surplus annual revenue of the Hope Prize fund, that is, the proceeds for one year, after deduction of fifty pounds and all necessary expenses attending the management of the fund.

2. The scholarship shall be annually awarded, in the month of March, to the student who, intending to continue his studies and attendance in the Chemical Laboratory, has in the opinion of the Professor of Chemistry, most distinguished himself during the previous session in the Chemical Laboratory, declaring that the student to whom the said scholarship is so awarded shall be bound, during the succeeding Summer and Winter Sessions, to assist the Professor of Chemistry in the Chemical Laboratory, and shall be subject to the directions of the said Professor as to the nature and amount of the assistance to be so given by him.

3. If any such student, to whom the said scholarship is awarded, shall fail to continue his studies and attendance in the said Laboratory during the Summer Session immediately succeeding the award of said scholarship, the scholarship shall be forfeited by such student and assigned to the student next in merit in the opinion of the said Professor, who shall continue his studies and attendance in the said Laboratory.

4. If the holder of the scholarship shall continue his studies and attendance in the said Laboratory during the said Summer Session, but shall fail to continue such study and attendance during the Winter Session next succeeding, he shall be entitled to receive one-third part of the scholarship, and the remainder of the scholarship shall be assigned to the student next in merit in the opinion of the Professor of Chemistry, and who shall continue his studies and attendance during the succeeding Winter Session under the above-mentioned conditions.

5. In the event of there having been no student deemed by the said Professor worthy of the said scholarship, either originally or on its for-

feiture (complete or partial) as aforesaid, the scholarship shall not be awarded, and the surplus annual income of the Hope Prize fund shall be added to the capital sum of the said fund.

6. That one-third part of the scholarship shall be payable at the term of Lammas, and two-third parts at the term of Candlemas.

1875. George Carr Robinson.

1876. William W. J. Nicol.

1876. } Thos. Lindsay.

1876. } John O. Morrison.

1877. Wm. Inglis Clark.

1878. Lewis Johnstone.

II.—THE ROBERT WILSON MEMORIAL PRIZE.

This Prize was founded by John Wilson of South Bantaskine, in memory of his son, Robert Wilson, and consists of the annual proceeds of a sum of £250. It is to be annually awarded at the close of the Winter Session to the student in the senior Chemistry Class who takes the highest honours. See Deed of Foundation at p. 351 of CALENDAR for 1876-77.

1877. R. A. Lundie.

1878. John Waugh.

III.—THE ELLIS PRIZE FOR PHYSIOLOGY.

This Prize consists of the proceeds of a sum of £500 bequeathed by the late Daniel Ellis, Esq., to the Principal and Medical Faculty of the University of Edinburgh, accumulated for three or five years. It is to be awarded for the best Essay or Treatise on some subject of Animal or Vegetable Physiology to be proposed by the Faculty, for Competition, to Students or Graduates of five years' standing. The subject of the first competition is as follows:—"On the respiration of plants as distinguished from their nutrition; an experimental inquiry into the reciprocal action between a plant and the air; in the light, in darkness, and exposed to different amounts and qualities of light."

The Essays to be given in by the 1st November 1878, and the Prize to be awarded at the Arts Graduation in April 1879.

IV.—MEDICAL FACULTY PRIZES.

Gold Medals are given annually on the day of graduation to Doctors of Medicine whose Theses are deemed worthy of that honour. (For List of Prizemen, *see* pp. 185-7.

V.—THE GOODSIR MEMORIAL PRIZE.

This Prize was founded in 1872 by the subscribers to the fund for a memorial of the late Professor John Goodsir. It is in the patronage of the Principal, Dean of the Medical Faculty, and Presidents of the Royal Colleges of Physicians and Surgeons of Edinburgh, and is for the encouragement of the study of Anatomy and Physiology. It is to be

given triennially, and is to be of the value of £60 sterling. It is open to all Graduates in Medicine of the University of not more than three years' standing at the time of the competition, and to Licentiates of the Colleges of Physicians or Surgeons of Edinburgh of a like standing, who have attended within the University the same number of classes as are required for the Degree of M.B. The Prize is awarded for the best Essay containing results of original investigations in Anatomy, Human and Comparative, either Normal, or Pathological, or in Experimental Physiology.

The next award may be made in August 1878, and competing Dissertations must be given in to the Professor of Anatomy not later than the 30th April previously. *See* Deed of Foundation at p. 314 of *CALENDAR* for 1872-73.

1875. James Foulis, M.D.

VI.—THE WIGHTMAN PRIZE IN CLINICAL MEDICINE.

This Prize, which consists of the annual proceeds of a sum of £300 (at present £10, 10s.), was founded by Mrs E. Wightman, in memory of her son, J. T. Wightman, M.B., C.M., and is to be annually awarded at the close of the Summer Session to the student attending the Class of Clinical Medicine who shall write the best Dissertation on any subject presented by the Medical Faculty, or who shall make the best Report and Commentary on cases which have during the previous Winter and Summer Sessions been treated in the University Clinical Wards in the Royal Infirmary. Three months' notice of subject is to be given by the Medical Faculty. *See* Deed of Foundation at p. 348 of *CALENDAR* for 1876-77.

The Prize, which is open to members of the Clinical Class, either of Winter 1877-8 or Summer 1878, will be awarded for the best report and commentary on cases. The papers to be given in on Monday, July 8th.

VII.—BOTANICAL SOCIETY'S PRIZES.

The Botanical Society of Edinburgh have adopted the following resolution :—

“That a Prize of Ten Guineas shall be awarded triennially to a student who has attended the Botanical Class at the Royal Botanical Garden, Edinburgh, during at least one of the three years preceding the award, and has gained honours in the Class Examinations. The Prize to be awarded for practical research. Subject for competition to be intimated by the Council at the commencement of each triennial period, along with a notice of the manner in which the Prize is to be awarded.

The Botanical Society accordingly offers a Prize of Ten Guineas for the best and approved Essay on the Reproduction of Lycopodiaceæ, to be competed for by Students who have attended the Botanical Class at the Royal Botanic Garden, Edinburgh, during at least one of the three years preceding the award, and have gained honours in the Class Examinations.

The Author is expected to give results of practical observations and experiments made by himself on the subject, illustrated by microscopical specimens.

The Essay and Specimens to be given in on or before 1st May 1879, with a sealed note containing the author's name, and a motto outside.

Facilities will be given for carrying on observations and experiments at the Royal Botanic Garden, Edinburgh.

VIII.—THE JENNER PRIZE.

A Prize of Ten Guineas is offered, through the Council of the Botanical Society, by CHARLES JENNER, Esq., for the best and approved Essay on the Structure and Reproduction of the Frondose and Foliaceous Jungermanniaceæ. This prize is subject to all the conditions specified in the case of that of the Botanical Society.

IX.—THE BEANEY PRIZE.

This Prize, of the annual value of about £40, was founded in 1878 by James George Beane, Esq., of Melbourne. It is awarded at the Graduation Ceremonial in Medicine to the Graduate in Medicine and Surgery of the year who, having attended within the University courses on Anatomy, Surgery, and Clinical Surgery qualifying for Graduation, shall obtain the highest number of marks during his examinations in these subjects for the Degrees of Bachelor of Medicine and Master of Surgery. The Senatus has the power of withholding the Prize in the event of no Student passing the above examinations with sufficient merit. *See Deed of Foundation at p. 371.*

X.—THE CAMERON PRIZE.

This Prize was founded in 1878 by the late Dr Andrew Robertson Cameron, of Richmond, New South Wales. It is of the annual value of about £70, and is to be given annually "to the practitioner or member of the medical profession who shall be adjudged to have made the most valuable addition to Practical Therapeutics during the year preceding, and in determining such question, the word Therapeutics shall be taken in its widest sense as including every agent, or agency capable of influencing the human body in the maintenance or improvement of health, avoidance or cure of diseases, or the alleviation of suffering."

The first award to be made in August 1879.

University Scholarships.

FACULTY OF ARTS.

I.—THE PITT CLUB CLASSICAL SCHOLARSHIP.

The Pitt Club Scholarship is of the annual value of about £60, tenable for not more than four years. It is under the management of the Senatus Academicus. By ordinance No. 17 of the Scottish Universities' Commissioners it is open for competition to all who have passed regularly through the Course in Arts in the University, and have been admitted to the Degree of M.A. in Edinburgh, at any time within four years before the competition takes place. The subjects embraced in the examination are CLASSICS and ENGLISH LITERATURE.

- 1862. Thomas Gray, M.A.
- 1866. Archibald Brown, M.A.
- 1870. Thomas Raleigh, M.A.
- 1872. Thomas Kirkup, M.A.
- 1873. Robert Clark, M.A.
- 1875. *D. G. Ritchie, M.A.*

II.—MACKENZIE CLASSICAL SCHOLARSHIP.

This Scholarship was founded in 1862, by James Mackenzie, Esq., W.S., and is of the annual value of about £120, tenable for not more than four years. It is under the management of the Senatus Academicus. By ordinance No. 90 of the Scottish Universities' Commissioners, it is open for competition to all Graduates in Arts in the University of Edinburgh of not more than three years' standing at the time of the competition. Candidates are examined in CLASSICAL LITERATURE and in ENGLISH LITERATURE, and the Examination is conducted by three or more Examiners selected by the Senatus from their own body. It cannot be held along with any other Scholarship, Fellowship, or Bursary, of any Scottish University. The Examinations will include—1. Translations from Latin and Greek authors; 2. Composition in Latin and Greek Prose; 3. Latin and Greek Literature, and History; 4. English Essay-Writing; 5. History of English Literature.

- 1863. William Millar Nicolson, M.A.
- 1867. Thomas Stewart Omond, M.A.
- 1871. Thomas Raleigh, M.A.
- 1875. *William Petersen, M.A.*

III.—BAXTER MATHEMATICAL SCHOLARSHIP.

This Scholarship was founded by Sir David Baxter, Bart., of Kilmaron, in 1863. It is of the annual value of about £60, tenable for not more than four years. By the terms of the Deed of Foundation (given in the *CALENDAR* for 1864-5, p. 171) it is to be awarded for proficiency in the department of Mathematics, particularly in that branch of it which includes mechanical and physical science. Competitors must be Graduates in Arts of the University of Edinburgh, of not more than four years' standing at the time of the competition, who have taken Honours in the department of Mathematics.

- 1864. John Macbeth, M.A.
- 1866. James A. Blaikie, M.A.
- 1870. R. K. Galloway, M.A.
- 1875. John M'Diarmid, M.A.
- 1876. *Hector W. G. Mackenzie, M.A.*

IV.—BAXTER PHILOSOPHICAL SCHOLARSHIP.

This Scholarship was founded by Sir David Baxter, Bart., of Kilmaron, in 1863. It is of the annual value of about £60, tenable for not more than four years. By the terms of the Deed of Foundation (given in the *CALENDAR* for 1864-5, p. 171), it is to be awarded for proficiency in the Department of Mental Philosophy. Competitors must be Graduates in Arts in the University of Edinburgh, of not more than four years' standing at the time of the competition, who have taken Honours in the department of Mental Philosophy. The subjects of examination are Logic, Metaphysics, and Moral Philosophy.

- 1864. John M. Robertson, M.A.
- 1868. George Forbes, M.A.,
- 1870. Charles B. Bright Maclaren, M.A.
- 1872. Donald Ross, M.A.
- 1874. Hugh John Edward Fraser, M.A.
- 1878. *Alexander M. Stalker, M.A.*

V.—BAXTER PHYSICAL SCIENCE SCHOLARSHIP.

This Scholarship was founded by Sir David Baxter, Bart., of Kilmaron, in 1865. It is of the annual value of about £60, tenable for two years. By the terms of the Deed of Foundation (given in the *CALENDAR* for 1866-7, p. 203), it is to be awarded to the most eminent of the Bachelors in Science, who have passed their examinations in the Physical Sciences, including Experimental Philosophy and Chemistry, either in the year preceding a vacancy, or in the year in which a vacancy occurs. Amongst other conditions the second year's tenure of this Scholarship is subject to the condition that the holder shall have taken the Degree of Doctor in Science in the first year of his tenure of it. It cannot be held with any other Scholarship, Fellowship, or Bursary, or with any situation yielding an annual income of £100.

- 1866. John Affleck, M.A. (Glas.), B.Sc. (Edin.)
- 1868. James Gow Black, M.A., B.Sc. (Edin.)
- 1870. Andrew Peebles Aitken, M.A., B.Sc.
- 1874. Robert Romanis, B.Sc.
- 1876. *Aghornath Chattopadhyay, B.Sc.*

VI.—BAXTER NATURAL SCIENCE SCHOLARSHIP.

This Scholarship was founded by Sir David Baxter, Bart., of Kilmaron, in 1865. It is of the annual value of about £60, tenable for two years. By the terms of the Deed of Foundation (given in the *CALENDAR* for 1866-67, p. 203), it is to be awarded to the most eminent of the Bachelors in Science, who have passed their examinations in the Department of the Natural Sciences, including Botany, Zoology, Physiology, and Geology, either in the year preceding a vacancy or in the year in which a vacancy occurs. Amongst other conditions the second year's tenure of this Scholarship is subject to the condition that the holder shall have taken the Degree of Doctor in Science in the first year of his tenure of it. It cannot be held with any other Scholarship, Fellowship, or Bursary, or with any situation yielding an annual income of £100.

- 1866. Henry Alleyne Nicholson, B.Sc.
- 1868. Thomas Lauder Brunton, M.B., B.Sc.
- 1870. William Stirling, B.Sc.
- 1871. Alexander Hodgkinson, B.Sc.
- 1873. I. Bayley Balfour, B.Sc.
- 1875. John Robertson, B.Sc.
- 1876. *W. J. Dodds, B.Sc.*

VII.-IX.—JOHN EDWARD BAXTER SCHOLARSHIPS.

These Scholarships were founded in 1876, and are three in number, each of the value of £100. They are in the Departments of Mathematics, Classical Literature, and Mental Philosophy. The Scholarship in Mental Philosophy will be competed for in December 1878, that in Mathematics in 1879, and that in Classical Literature in 1880.

- 1876. *Hector W. G. Mackenzie, M.A.* (Mathematics).
- 1877. *Robert L. Orr, M.A.* (Classics).

X.—DRUMMOND MATHEMATICAL SCHOLARSHIP.

This Scholarship was founded in 1865 by Miss Elizabeth Drummond, in memory of her brother, Captain Drummond, R.E., Under Secretary for Ireland. It is of the annual value of about £100, and is tenable for three years. By the Deed of Foundation (given at p. 198 of *CALENDAR* for 1865-6), it is open to Graduates in Arts of not more than three years' standing, who shall have graduated with Honours in the Department of Mathematics. It is not to be held with any other Bursary or Scholarship, and the holder is recommended to travel for the purpose of inspecting, in this and other countries, remarkable engineering and

architectural structures, to extend his knowledge of the practical application of Mathematical principles; and, if required by the *Senatus Academicus*, to deliver reports on the principal structures examined by him, and the Mathematical principles exemplified thereby; which reports the *Senatus* may cause to be publicly read in the University or elsewhere in Edinburgh.

- 1868. Julius Wood Muir, M.A.
- 1871. David H. Marshall, M.A.
- 1875. P. R. Scott Lang, M.A.
- 1878.*

XI.—BRUCE OF GRANGEHILL AND FALKLAND'S CLASSICAL SCHOLARSHIP.

This Scholarship was founded in 1865 by Mrs Tyndall Bruce of Falkland, and is of the annual value of £100, tenable for three years, during two of which the studies of the Scholar must be prosecuted in the University of Edinburgh, but in the third year they may be prosecuted in an English or Foreign University. By the terms of the Deed of Foundation (given at p. 205 of the *CALENDAR* for 1866-7), it is open to Students who have passed their Examinations for the Degree of Master of Arts, with Honours, and is conferred upon the most distinguished of these in the year and department in which it is open. The Scholarship cannot be conferred upon any one whose age exceeds twenty-three years. It cannot be held with any other Scholarship or Fellowship of a Scottish University, or with any situation yielding an income of £100 per annum.

- 1866. James C. Bathgate, M.A.
- 1867. Peter Peterson, M.A.
- 1870. Thomas Walker, M.A.
- 1873. Charles William Imrie, M.A.
- 1876. R. Johnstone Cownie, M.A.

XII.—BRUCE OF GRANGEHILL AND FALKLAND'S SCHOLARSHIP IN MENTAL PHILOSOPHY.

This Scholarship was founded in 1865 by Mrs Tyndall Bruce of Falkland, and is of the value of £100. It is tenable for the same period, and under the same conditions as the preceding. The subjects of examination are Logic, Metaphysics, and Moral Philosophy.

- 1866. John Rae, M.A.
- 1868. Alexander Murray Dunlop, M.A.
- 1871. Robert Adamson, M.A.
- 1874. David Morrison Ross, M.A.
- 1877. John Porteous, M.A.

* The name of the successful Competitor for this Scholarship will be announced in the August Supplement.

XIII.—BRUCE OF GRANGEHILL AND FALKLAND'S MATHEMATICAL SCHOLARSHIP.

This Scholarship was founded in 1865 by Mrs Tyndall Bruce of Falkland, and is of the value of £100. It is tenable for the same period, and under the same conditions as the preceding. The subjects of examination are Mathematics and Natural Philosophy.

- 1866. James Reoch, M.A.
- 1869. David H. Marshall, M.A.
- 1872. P. R. Scott Lang, M.A.
- 1875. R. A. Lundie, M.A.
- 1878. *D. Traill.*

XIV.-XV.—GRAY SCHOLARSHIPS.

These two Scholarships founded by Mr Gray of Baad Park in 1864, are each of the annual value of about £38, tenable for a period not exceeding two years. All candidates must undergo the Examination for the Degree of Master of Arts. In making appointments the Senatus are directed to prefer in the first place such as are of the name of Gray ; secondly, such as are born in the parishes of Midcalder or Kirknewton. Failing well qualified Candidates, who fulfil these conditions, the Scholarships are awarded to the most distinguished candidates for the Degree in Arts, alternating amongst the Honours departments.

The holders must proceed to study in one of the Faculties of Theology, Law, or Medicine. The next Open Gray Scholarship goes to the department of Classics.

- 1872. Hugh John Edward Fraser, M.A. (Philosophy).
- 1872. J. Allan Gray, M.A.
- 1875. Archd. L. MacLeish, M.A. (Classics).
- 1876. R. Burdon Haldane, M.A. (Philosophy.)
- 1878. *W. O. Walker.*

XVI.—GREEK TRAVELLING SCHOLARSHIP.

This Scholarship was founded in 1864, and is in the patronage of the Professor of Greek in the University of Edinburgh. It is of the annual value of £70, tenable for one year. It is open for competition to all Masters of Arts who have taken their Degree not more than a year previous to the Competition ; but Masters of Arts who have taken their Degree with Honours in Classics may claim the Fellowship without further examination, in the order of their excellence. The holder is to reside one year at a German University, for the study of German and of Greek Philology, and is held bound to depart for Germany not later than the first week of May, after declaring his acceptance. He will receive £35 on his departure and the other £35 in October thereafter,

provided he remain abroad for the whole year, but should he prefer to return after six months the second £35 will be forfeited.

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| 1865. Henry Cowan, M.A. | 1872. John R. Baxter, M.A. |
| 1866. W. D. Thorburn, M.A. | 1873. James Common, M.A. |
| 1868. Julius Wood Muir, M.A. | 1874. Thos. D. Anderson, M.A. |
| 1869. John Marshall, M.A. | 1875. William Peterson, M.A. |
| 1870. Thomas Kirkup, M.A. | 1876. Thomas Gilray, M.A. |
| 1871. J. Whitson Fergusson, M.A. | 1877. R. L. Orr, M.A. |
| 1878. <i>J. W. Mackail, M.A.</i> | |

XVII.—GILCHRIST SCHOLARSHIPS.

These Scholarships were founded in 1865 by the Trustees of the late Dr Gilchrist; they are three in number, each of the annual value of £100, and are open to natives of India who have passed competitive examinations at the Presidential Colleges of India. They are attached to the Medical, Law, and Literary Classes in the University.

XVIII.-XIX.—MISSES BAXTER OF BALGAVIES' SCHOLARSHIPS.

These Scholarships were instituted in 1868 and 1878 by Miss Mary Baxter of Balgavie. They are three in number, two of the annual value of £40, the third of £20. They are in the gift of the Directors of the High School of Dundee. They are open for competition to all pupils who shall have finished their course within one year at the High School of Dundee. The examination is held at Dundee by examiners appointed by the Directors, and the subjects are Geometry, Algebra, Trigonometry, and Mechanical Drawing. They are tenable for one year certain, and for a second if a favourable certificate is sent to the Directors by the Senatus Academicus. The Classes to be attended the first year are Mathematics, Natural Philosophy, and Engineering; the second year Chemistry, Engineering, and the second course of Natural Philosophy. In the event of a degree in Engineering being Established, the holder of any of these Scholarships taking that degree at the end of his two years' course, is entitled to a gratuity of £10, 10s.

These Scholarships are not to be held with any other Scholarship, Fellowship, or appointment yielding £50 per annum. *See* Deeds of Foundation, at page 255 of the CALENDAR for 1869-70, and at p.

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| 1871. James A. Ewing. | 1875. David Smart. |
| 1874. David Angus. | 1876. George Deuchars. |

XX.-XXI.—FETTES EXHIBITIONS.

These Exhibitions are each of the annual value of £60. They are tenable for four years, open annually for competition, one among the Foundationers alone; and the other among the Foundationers and such

of the other pupils as have attended the Fettes College regularly for not less than four years. The first appointments were made in 1875.

1875. { W. G. Macpherson.
J. S. Johnstone.
1877. G. L. H. Milne.

XXII.-XXIII.—RHIND SCHOLARSHIPS.

These Scholarships were in accordance with the will of the late A. H. Rhind, Esq., of Sibster, founded by his trustees on the reversion of his estate. They are two in number, each of the value of £90, tenable for two years, with the possibility of a prolongation of the tenure at the end of that period. The first is in the Department of Classical Literature, the second in that of Philosophy. Candidates who are Undergraduates must have completed at least three Sessions in the regular Curriculum in Arts, and have obtained at least two Departmental Certificates; and Candidates who are Graduates must have received the Degree of Master of Arts in this University within two years of the date of the Competition. The successful Candidates may be required to undertake duties connected with the teaching of the University, or otherwise assist in some department of its operations in terms of the Trust Deed. The first award was made in April 1876 till 1879. See Deed of Foundation at p. 322 of CALENDAR for 1874-75.

1876. { R. W. Barbour, M.A. (Philosophical).
George B. Gardiner, M.A. (Classical).

XXIV.—SCHOLARSHIPS IN MUSIC.

By the will of Signor Theophile Bucher, who died in 1871, his trustees are enjoined (on the death of an Annuitant), to pay over the residue of his estate, amounting to about £3000, to the Senatus and Curators of the University for the purpose of founding one or more Scholarships of music to be held by any young men born in Scotland, who may shew a natural talent for music and wish to make it their profession, for the purpose of improving their education, and enabling them to prosecute the study of the science and art of music in Italy, Germany, and France. When the funds become available, Regulations for the Scholarships will be framed by the Curators and Senatus.

XXV.—THE CHARLES MACLAREN SCHOLARSHIP.

This Scholarship was founded in 1871 by the Trustees of Mrs MacLaren, in memory of Charles MacLaren, Esq., the eminent geologist. It consists of the proceeds of a mortified sum of £2,500, yielding about £100 per annum. It is for the encouragement of the study of Mathematics and Natural Philosophy, and is open to all graduates in Arts of not more than three years' standing at the time of the Competition

(and under 30 years of age) who shall have taken honours in Mathematics. It is tenable for three years. The successful competitors are to spend a few months in travelling and in examining remarkable Engineering and Architectural Structures, and to report to the Senatus, which report the Senatus may cause to be publicly read in the University. The Deed of Foundation is given at p. 324 of CALENDAR for 1873-74. The next competition may be in December 1878.

1875. *Alexander Macfarlane, M.A.*

XXVI.—NEIL ARNOTT SCHOLARSHIP FOR EXPERIMENTAL PHYSICS.

This Scholarship was founded in 1874, and is awarded annually to the most distinguished Student in the Physical Laboratory of the University. It is of the annual value of about £40.

The recipient must, during the ensuing Summer and Winter Sessions assist the Professor of Natural Philosophy in the Laboratory. Failing a Student deemed by the Professor worthy of the Scholarship, it may be given to the Candidate for a Degree in Arts who has undergone the Examination in Natural Philosophy with most distinction. See Deed of Foundation, at p. 320 of CALENDAR for 1875-76.

1875. *Alexander Macfarlane, M.A.*

1876. *C. Michie Smith, B.Sc.*

1877. *Cargill G. Knott, B.Sc.*

1878. *Edward B. Kirk.*

XXVII.—XXIX.—FERGUSON SCHOLARSHIPS.

The examination of Candidates for three of these Scholarships will be held in Glasgow, on Tuesday, 1st October next, and following day. One of the Scholarships will be awarded for the greatest proficiency in Classics; one for the greatest proficiency in Mathematics, including Natural Philosophy; and one for the greatest proficiency in Mental Philosophy, including Logic, Metaphysics, and Ethics.

Subjects for Examination:—

CLASSICAL SCHOLARSHIP.

Latin—

Lucretius, Books V., VI.
Virgil, "Eclogues and Georgics."
Lucan, "Pharsalia," Books I.-V.
Cicero, "Epistolae ad Familiares," Books I.-VI.
Tacitus, "Histories," Books I.-IV.
Seneca, "De Beneficiis," Books I.-IV.

Greek—

Homer, "Iliad," Books I.-XII.
Æschylus, "Prometheus" and "Agamemnon."
Aristophanes, "Acharnians" and "Frogs."
Thucydides, Books V., VI.
Demosthenes, "Olynthiacs" and "Philippics," I., II., III.
Aristotle, "Rhetoric."

Peile's Introduction to Latin and Greek Etymology.

Latin Prose Composition.

Greek Prose Composition.

Questions on Greek and Roman History and Literature, with especial reference to the subject matter of the Books read.

MATHEMATICAL SCHOLARSHIP.

Mathematics—Euclid's Elements.

Algebra, including Determinants and Theory of Equations.

Trigonometry, Plane and Spherical.

Analytical Geometry, in Two and Three Dimensions.

Differential and Integral Calculus, and Differential Equations.

Natural Philosophy—Abstract Dynamics (commonly called Mechanics) including Kinematics, and Statics, and Kinetics of Solids and Fluids.

Experimental Physics, including all the ordinary subjects treated in Lectures on Natural Philosophy.

PHILOSOPHICAL SCHOLARSHIP.

Logic—Province and History of Logic. Logical forms of Notions, of Judgments, and of Inferences. Fallacies and their Causes. Evidence. Authority. Science and its Methods. Recent Discussions affecting Logic.

Metaphysics—Psychology (Physiological and Metaphysical) and Ontology,—including the Nature, Origin, and Limits of Man's Knowledge of Self, the Material World, and God. History and Critical Analysis of Ancient and Modern Metaphysical Systems.

Moral Philosophy—Moral Psychology and Metaphysics of Ethics, including the Will, Moral Government of the Universe, and relative Questions. Practical Ethics. History and Critical Analysis of Ancient and Modern Ethical Theories.

The Competition will be open to all persons who have passed the last of the Examinations required for the Degree of Master of Arts in one of the Universities of Scotland (whether taking the degree at the same time or not) within two years immediately preceding, and who have not already gained one of these Scholarships or competed more than once previously for any of them.

The Examinations will be conducted in writing, and the Scholarships awarded on the report of the Examiners as to the merit of the Candidates, but the minimum of 600 out of 1000 marks must be reached in order to entitle to a Scholarship.

The Scholarships, of £80 each per annum, are tenable for two years, subject to fulfilment of the following Rule of the Trustees:—

“Persons gaining the Scholarships will, during the tenure thereof, be expected to prosecute studies in furtherance of the higher learning; and those who have not graduated shall be required to do so before the last payment is made. Any case of conduct unbecoming a scholar and a gentleman, shall incur forfeiture of the Scholarship, of which the Trustees shall be sole judges.”

Certificates will be granted to such of the unsuccessful Competitors as, in the opinion of the Examiners, shall have taken a distinguished position in the Examinations.

Candidates are requested to give in their names, personally or by letter, at the Office of The Ferguson Bequest Fund, 66 George Square, Glasgow, not later than 1st September 1878, and due intimation will be sent to those enrolled, as to the place and hours of Examination.

XXX.—THE SKIRVING SCHOLARSHIP FOR MORAL PHILOSOPHY.

This scholarship is to be founded in accordance with the Will of the late David Skirving, of No. 13 Westbourne Park, London. It will be of the annual value of about £50, and tenable for three years. *See* Deed of Foundation at p. 350 of CALENDAR for 1876-77.

FACULTY OF DIVINITY.

I.—PITT CLUB DIVINITY SCHOLARSHIP.

This Scholarship was instituted in 1862 by the Pitt Club, and is of the annual value of about £140, tenable for three years. By Ordinance No. 77, of the Universities' Commissioners, this Scholarship is open to competition to all Masters of Arts of any of the Universities of Scotland who have given regular attendance in the Faculty of Divinity in the University of Edinburgh for three complete Sessions, and who are in the course of studying, with the view of becoming Clergymen of the Church of Scotland. No person is admissible who has been entered as a Student of Divinity more than six years prior to the time of the competition.

Candidates are to be examined on (1) The Evidences of Revealed Religion; (2) Systematic Theology; (3) Hebrew; (4) Church History; (5) Biblical Criticism. It cannot be held with any other Scholarship, Fellowship, or Bursary of any Scottish University, or along with any parochial or pastoral charge, whether as minister or assistant.

- 1863. Thomas F. Johnstone, M.A.
- 1866. Henry Cowan, M.A.
- 1869. William Hastie, M.A.
- 1872. Andrew Benvie, M.A.,
- 1874. Alexander Ritchie, M.A., B.D.
- 1876. William Campbell, M.A., B.D.
- 1878. George Ferries, B.D.

II.—MAXTON DIVINITY SCHOLARSHIP.

This Scholarship was founded by the Trustees of the late John Maxton, Esq., in 1867, and is of the annual value of about £40, tenable for three years. It is open only to Students who are members of the Established Church of Scotland, and who have completed the course of

study in the Faculty of Divinity in the University of Edinburgh. (*See* Deed of Foundation, at p. 234 of CALENDAR for 1867-8.)

1868. John Fairley, M.A.

1871. James Bonallo, M.A.

1875. William Brodie, M.A.

1878. *George B. Gardner, B.D.*

III.—THE GLOVER DIVINITY SCHOLARSHIP.

This Scholarship was founded in 1875 by Subscribers to a Fund for commemorating the memory of the Rev. W. Glover, D.D., and the University Endowment Association. It is of the value of about £32, tenable for three years, and open to all Masters of Arts of any of the Universities of Scotland who have finished their study of Theology, before entering the Church of Scotland, within six years, and who have attended the last Session of their course at least in the University of Edinburgh. It cannot be held with any other Divinity Scholarship or Bursary in any Scottish University, and it is not offered for competition in any year where there is a vacancy in the Pitt Divinity Scholarship or the Maxton Divinity Scholarship. The next competition may take place in April 1880. *See* Deed of Foundation, at p. 343 of CALENDAR for 1875-76.

1877. *John Patrick, B.D.*

IV.—THE AITKEN THEOLOGICAL SCHOLARSHIP.

This scholarship, founded in 1875 by bequest of the Rev. David Aitken, D.D., formerly minister of Minto, consists of the proceeds of £2500, and its annual value is about £100. Its purpose is to make provision for the study of Church History and Biblical Criticism at one or more University Seats in Germany, or elsewhere on the Continent of Europe, in the case of meritorious students at Edinburgh University. It is to be awarded, after competitive examination, to a Student in Divinity of the University of Edinburgh, who is a Graduate in Arts of that University of not more than four years' standing. It is tenable for two years; but the Senatus may extend the term for another year if it appear to them desirable. The time of the competition to be fixed and publicly intimated by the Senatus at least three months before; and the Senatus are also at liberty to prescribe whether one or more Semester in the foreign University shall be attended in each year. It is not offered for competition in the same year as the Pitt Divinity Scholarship or the Glover Divinity Scholarship. The next appointment may be made at the close of Winter Session 1878-9. *See* Deed of Foundation at p. 344 of CALENDAR for 1876-77.

1877. *James A. Paton, B.D.*

FACULTY OF MEDICINE.

I.—ETTLES MEDICAL SCHOLARSHIP.

This Scholarship was founded in 1868 by Miss Mary Ettles of Inverness, and consists of the free annual proceeds of the sum of £1000 mortified for the purpose. It is to be awarded annually to the Graduate in Medicine of the University of Edinburgh, whom the Medical Faculty may consider the most distinguished of that year. (*See* Deed of Foundation, at page 242 of CALENDAR for 1868-69.)

1869. Henry Alleyne Nicholson, M.D., D.Sc. Edin.

1870. David Page, M.B., C.M.

1871. Urban Pritchard, M.D.

1872. William Stirling, M.B., C.M., D.Sc.

1873. John Wilson Alston, M.B., C.M.

1874. James Murdoch Brown, M.B., C.M.

1875. Adam Robert Turnbull, M.B., C.M.

1876. D. Grant, M.A., M.B., C.M.

1877. William Richardson, M.B., C.M.

II.—SIBBALD MEDICAL SCHOLARSHIP.

In accordance with the will of the late Dr Sibbald, his trustees have founded one Scholarship of £40 per annum for a deserving young man studying medicine in the University of Edinburgh. It is tenable for four years. The trustees have it in their power to bestow this Scholarship after competitive examination, in which case it shall be given to a student who has completed his first *Annus Medicus* in the University of Edinburgh, such *Annus Medicus* being the Student's first attendance at any school of medicine, and consisting either of two winter classes, or one winter class and two classes during the previous summer session, all in the University of Edinburgh. The competitive examination is in Chemistry, Botany, and Natural History. The scholar must complete the prescribed course of study for the Degree of Bachelor of Medicine. Every Candidate must lodge certificates—(1) from a clergyman of the denomination to which he belongs; (2) from a householder, to the effect that he is a person of good conduct.

1871. Andrew Stark Currie.

1875. Charles Begg.

III.—THOMSON SCHOLARSHIP.

The Thomson Scholarship, value £40, tenable for four years. First appointment in October 1878. A preference to be given to candidates of the names of Thomson or Traquair, or natives of the town or county of Dumfries, or of the City of Edinburgh. For subjects of examination and other particulars, application may be made to Messrs Traquair, Dickson, & Maclaren, W.S., 11 Hill Street, Edinburgh.

University Fellowships.

FACULTY OF ARTS.

I.—GUTHRIE FELLOWSHIP IN CLASSICAL LITERATURE.

This fellowship was founded in 1866 by James Guthrie, Esq., London. It is of the annual value of about £100, tenable for four years. By the terms of the Deed of Foundation (given at p. 210 of the CALENDAR for 1866-7) it is for proficiency in Classical Literature. It is tenable by Graduates in Arts of the University who may have taken their Degree since the period of the last competition. Students, however, who have passed their examination for a Degree since the last competition, but deferred graduating for the sake of obtaining Honours, are also eligible. It cannot be held along with any other Fellowship or Scholarship in any Scottish University in the same department.

1866. George Watson, M.A.

1870. John Marshall, M.A.

1874. *Robert Clark, M.A.*

II.—SCOTTISH UNIVERSITIES CLASSICAL FELLOWSHIP.

This fellowship has taken the place of one originally founded in 1866 by the Association for the better endowment of the University of Edinburgh, which was of the annual value of £100, tenable for three years, and was open to competition among Graduates of the University of Edinburgh only. The present Fellowship is supported by the Association, and Committees at the other Scottish Universities, and is open to Graduates in Arts of any Scottish University. The first examination took place at the University of Edinburgh in 1875, the second is to be held at Glasgow, the third at Aberdeen, and the fourth at St Andrews. For terms see p. 346 of CALENDAR for 1875-6.

1866. John A. Stewart, M.A.

1869. David F. Addis, M.A.

1872. Thomas Kirkup, M.A.

1875. *David G. Ritchie, M.A.*

III.—HAMILTON FELLOWSHIP IN MENTAL PHILOSOPHY.

This Fellowship was founded in 1866 by the Subscribers to the fund for a Memorial to the late Professor Sir William Hamilton, and by the Association for the better endowment of the University. It is of the

annual value of about £100, tenable for three years. By the Deed of Foundation (given at p. 213 of CALENDAR for 1866-67), it is open to all Graduates in Arts in the University of Edinburgh of not more than three years' standing at the time of the competition. It cannot be held along with any other Scholarship or Fellowship in a Scottish University. The subjects of examination are Logic, Metaphysics, Moral Philosophy, and the History of Philosophy.

1867. Thomas M. Lindsay, M.A.

1869. Donald Mackinnon, M.A.

1872. Robert Adamson, M.A.

1874. Thomas Shaw, M.A.

1878. *W. R. Sorley, M.A.*

IV.—THE SHAW FELLOWSHIP IN MENTAL PHILOSOPHY.

This fellowship was founded in 1867 by Contributors to a Memorial to Sir James Shaw, Bart., a native of Ayrshire, afterwards Lord Mayor of, and M.P. for London. It is of the annual value of about £150, tenable for a period not exceeding five years, and is in the patronage of the Senatus Academicus of the University of Edinburgh. It is designed for the encouragement of the study of Logic, Metaphysics including Psychology, Moral Philosophy, and the History of Philosophy, and is awarded after competitive examination on these subjects. It is open to Graduates in Arts of any of the four Scottish Universities, of not more than five years' standing at the time of the competition, and is tenable for five years. It is not to be held along with any other Fellowship, Scholarship, or Bursary in any Scottish University, and it will not be open to the competition of any person who already holds a Fellowship in any English or Irish University, though the holder of the Shaw Fellowship will not be precluded from afterwards obtaining an English or Irish Fellowship. The first Series of the Shaw Lectures was delivered in 1873 by the Rev. Professor Lindsay, on "William of Occam, and his position in Mediæval Philosophy," the second series will be delivered by Professor Adamson in December 1878, when the next competition for the Fellowship will be also held. (Deed of Foundation, p. 237 of CALENDAR for 1868-9.)

1868. Thomas M. Lindsay, M.A.

1873. *Robert Adamson, M.A.*

V.—FETTES FELLOWSHIPS.

These Fellowships to be instituted by the Fettes Trustees, are two in number, each of the annual value of £100. They are to be held by Graduates in Arts of the University, who have been educated for four years at least at the Fettes College.

VI.—THE FALCONER MEMORIAL FELLOWSHIP.

This Fellowship was founded in 1869 by the Subscribers to the Fund for a Memorial to Dr Hugh Falconer, M.D., (for many years Superin-

tendent of the H. E. I. Company's Botanic Gardens at Suharunpoor and Calcutta), and the Association for the better Endowment of the University of Edinburgh. It is of the annual value of about £100; and is for the encouragement of the Study of Palæontology and Geology. It is tenable for two years, but if the Senatus see fit, it may be held for three years, and with consent of the University Court, for four years, and is awarded after competitive examination in Natural History as applied to Palæontology and Geology. It is open to Graduates in Science or Medicine of this University of not more than three years' standing at the time of the competition. It cannot be held along with any other Fellowship, Scholarship, or Bursary in any Scottish University. The Deed of Foundation will be found at p. 270 of the CALENDAR for 1870-71. The next appointment may be made in October 1880 and the Examinations will be held at the same time as those for the Degree in Physical and Natural Science.

1871. William Stirling, B.Sc.

1874. George A. Gibson, B.Sc.

1878. R. A. Lundie, B.Sc.

FACULTY OF LAW.

EDINBURGH UNIVERSITY ENDOWMENT ASSOCIATION LAW FELLOWSHIP.

This Fellowship, of the value of £100, is open to Bachelors of Laws (LL.B) and Bachelors of Law (B.L.) of the University of Edinburgh of not more than five years' standing at the time of the competition. It is awarded to the competitor who shall present the best thesis on a subject comprised within the course of study required for the degree of Bachelor of Laws (LL.B) in the University. Any competitor who has published an original treatise or original writings on such a subject may present such treatise or writings instead of a special thesis. The thesis, treatise, or writings presented for competition, must be sent in to the Dean of the Faculty of Law on or before 31st October 1879. *See* Deed of Foundation, at p. 373.

FACULTY OF MEDICINE.

I.—THE SYME SURGICAL FELLOWSHIP.

This Fellowship, in value about £100, and tenable for two years, is open to competition among Bachelors of Medicine of not more than three years' standing who shall present the best Thesis on a Surgical subject giving evidence of original research, whether such Thesis be given in for Graduation or otherwise. The first award may be at the Graduation Ceremonial in August 1879. Theses intended for competition must be lodged with the Dean of the Medical Faculty on or before 30th April 1879. *See* Deed of Foundation, at p. 310 of Calendar for 1872-73.

II.—THE SWINEY LECTURESHIP ON GEOLOGY.

This Lectureship—candidates for which must have taken the Degree of Doctor of Medicine at the University of Edinburgh—is in the patronage of the Trustees of the British Museum, and is of the annual value of £144. The office is tenable for five years, at the expiration of which period the Lecturer is ineligible for the next election. The number of lectures is not to be less than twelve in each year, not more than three in the same week. A course was delivered at Edinburgh, July 1868, and each subsequent course will be delivered between the first of November and the end of July following, at such public places in the United Kingdom as the Trustees shall approve of. The public are to be admitted without fee. The Lecturer will be required at the termination of each course to deposit a copy, or full extract of such course of lectures, with the Principal Librarian of the British Museum, to whom application may be made for further particulars.

FELLOWSHIPS, SCHOLARSHIPS, BURSARIES, &c., OPEN FOR COMPETITION IN THE YEAR ENDING 30TH APRIL 1879.

Fellowships in Arts.

1. *Shaw Fellowship in Mental Philosophy* of about £170 annually, tenable for not more than five years, is open to competition among graduates in Arts in any of the Scottish Universities of not more than Five Year's standing, on the third Saturday of December 1878, at Ten o'clock.

Guthrie Classical Fellowship, value about £100, tenable for not more than Three Years, is also open to competition at the same time.

Candidates for either of these Fellowships must give their names and addresses to the *Secretary of the Senatus* before the 1st of December.

Scholarships in Arts.

1. *John Edward Baxter Scholarship in Mental Philosophy*, value about £100 a-year for not more than Three Years. Open to competition on the third Saturday of December 1878, at Ten o'clock.

2. *Charles Maclaren Scholarship in Mathematics and Natural Philosophy*, value about £100, tenable for not more than Three Years, is also open to Competition at the same time.

Candidates for either of these Scholarships must give their names and addresses to the *Secretary of the Senatus* before December 1st.

3. *Bruce of Grangehill and Falkland's Classical Scholarship*, value about £100, tenable for not more than three years, to be awarded at graduation in April 1879.

4. *Greek Travelling Scholarship*, value about £70, for one year, to be awarded by the Professor of Greek at Graduation in April 1879. The holder is held bound to depart for Germany not later than the first week of May. After declaring his acceptance he will receive £35 on his departure, and the other £35 in October thereafter, provided he remain abroad for the whole year; but should he prefer to return after six months, the second £35 will be forfeited.

5. *Gray Scholarship*, value about £38, tenable for Two Years, to be awarded at graduation in April 1879.

6. Two *Rhind Scholarships*, value about £90, will be vacant in 1879. The competition will probably be in December 1879.

7. Three *Ferguson Scholarships*—Classical, Mathematical, and Philosophical—each of the value of £80, tenable for two years, are competed for at Glasgow on 1st and 2d October 1878. Application to be made to the "Secretary of the Ferguson Bequest, 66 George Square, Glasgow," before September 1st.

University Prizes.

1. *Bruce of Grangehill and Falkland's Prize*, for the most distinguished Student in the Classes of Logic and Metaphysics, in Session 1878-79, to be awarded by the Professor. (See Synopsis of the Course of Logic and Metaphysics for 1878-79, in Calendar.)

2. *Neil Arnott Prize* in Natural Philosophy, value about £50.

3. *Scott and Dunbar Prize* of about £30, for the "most deserving and learned student in the Greek Classes," will be awarded at the end of Session 1878-79, "as may be directed by the Principal and the Professors of Divinity, Greek, and Humanity."

Competition Bursaries in Arts.

The Annual Competitive Examinations for Bursaries in Arts will commence on the *last Saturday of October*, 1878, at Nine o'clock, in the Library Hall of the University, and will be continued on the following *Monday*, at the same hour.

The names of the successful candidates, and of those distinguished in the competition, will be published in the order of merit.

FOR STUDENTS ENTERING THE FIRST SESSION IN ARTS.

1-3. *Three Edinburgh University Endowment Association Arts Bursaries*, of £20 a-year each, tenable each for three years, open to competition by any entering the Curriculum in Arts.

4. *One Tyndall Bruce Bursary* of £20 a-year, tenable for three years, open to competition by any entering the Curriculum in Arts.

5. *One Muir Classical Bursary*, of £20 a year, for one year, open to competition among students entering the Faculty of Arts for the first time, and also to students passing from the Junior classes of Latin and Greek in any Scottish University to the Senior Classes of Latin and

Greek in the University of Edinburgh, who have not passed in any University the examination for a Three Sessions' Curriculum. The examination for this Bursary will be confined to the subjects of Classical Literature included in the examination for a Three Sessions' Curriculum.

6. *One Thomson Bursary* of £25, tenable for four years, under arrangements now in progress. Applications to be made to Messrs Traquair, Dickson & Maclaren, 11 Hill Street.

7. *Grierson Bursary* of £20, tenable for four years, restricted in the first place to natives of the parishes of Crawford or Leadhills. Preferential Candidates (if any) for the Grierson Bursary must announce their names and addresses, with evidence of their preferential qualifications, to the *Secretary of the Senatus*, on or before the 1st of October 1878. *If no such candidates have thus announced themselves at that date, this Bursary will be included among those open to general competition on the last Saturday of October.*

8-9. *Two Patrick Bursaries*, of £80 and £40 each, tenable for two years, open to Candidates who have completed a course of education at any of the public schools or academies in the county of Ayr.

10. *Cowan Bursary* of £30, for two years, for Candidates from Ayr.

11. *One Sibbald Bursary* of about £30, tenable for four years. Names of Candidates to be sent to Messrs Mackenzie, Innes, & Logan, W.S., 25 Queen Street, before the beginning of October.

A considerable number of additional Bursaries for Students of the First year, provided by County Clubs, Associations, &c., will also be open at the above competition, in the University, on the last Saturday of October.

The subjects of examination for the above Bursaries (except No. 5), are Latin, Elementary Greek, Mathematics, and English Grammar and Composition. The examinations in Latin are held from 9 to 12, and in Greek from 1 to 4, on the last *Saturday* of October; in Mathematics from 9 to 12, and in English from 1 to 4, on the following *Monday*. No special books prescribed.

The examinations in Latin and Greek include the papers set at the same time for the Three Sessions' Curriculum, so that candidates for the latter may compete also for the Bursaries; and the examinations in Mathematics in like manner include those for the Entrance Examination in Mathematics.

FOR STUDENTS ENTERING THE SECOND SESSION IN ARTS.

1. *One Tyndall Bruce Bursary*, £35 a-year, tenable for not more than three years.

2. *Two Stewart Bursaries* of £10 a-year each, tenable for not more than three years.

The subjects of examination for *Second Session* Bursaries are Latin, Greek, and Mathematics. No special books prescribed.

FOR STUDENTS ENTERING THE THIRD SESSION IN ARTS.

1. *Horsliehill Scott Bursary*, about £40 a-year, tenable for not more than two years.

2. *One Macpherson Bursary*, about £45 a-year, open to Students who are natives of the Highlands and acquainted with Gaelic, tenable for not more than two years.

The subjects of examination for *Third Session Bursaries* are Classics, Mathematics, Logic and Metaphysics. No special books prescribed.

N.B.—The names and addresses of Candidates for First, Second, and Third Session Bursaries must be announced to the *Secretary of the Senatus* not later than the 15th of October 1878.

In the Competition for the preceding Bursaries, Students who matriculate and enter the Classes in the Faculty of Arts for the first time in this or any Scottish University, and such only, are considered Students of the *first session*; and in like manner all and only Students who matriculate and enter the Classes of the Faculty for the second and third time respectively, are considered Students in their *second* and *third* sessions respectively.

Town Council Bursaries.—Candidates for Bursaries in the gift of the Town Council, several of which are vacant early in October, are referred to the *City Clerk, Council Chambers*, Edinburgh, to whom early application should be made.

Heriot, County Club, and Private Bursaries.—For Heriot Bursaries, Candidates are referred to the *Treasurer of Heriot's Hospital*, 11 Royal Exchange, Edinburgh; for Bursaries instituted by various County Clubs, to their respective Secretaries; as to Private Bursaries, information may be obtained from the Patrons of the Bursaries or their Agents.

The attention of all Bursars in the Faculty of Arts, is particularly called to the following Regulation:—

“Bursars connected with the Faculty of Arts must attend, in the order required by the Dean in name of the Faculty, the Classes necessary for the Degree of Master of Arts, and present themselves at the Departmental Examinations necessary for that Degree.

“Each Bursar must present a Certificate, signed by the Dean, certifying his regular attendance on the Classes in the Faculty of Arts, on each occasion on which he applies to the Factor for a payment.”

Certificates, in terms of this regulation, will be given to Bursars, by the *Dean of the Faculty of Arts*, after the 11th November, and at the end of the Session. In applying for the Certificate Bursars must present evidence to the Dean in November that they have enrolled in their classes, and at the end of the Session that they have attended with regularity and made progress in their studies. Payments are made by the Factor for the University, “John Cook, Esq., W.S., 61 North Castle Street, Edinburgh.”

Scholarships in Science.

The Baxter Physical Science Scholarship, tenable for two years, may be filled up in November 1878.

The Baxter Natural Science Scholarship, tenable for two years, may be filled up in November 1878.

Faculty of Divinity.

I.—At the beginning of Session 1878-79, the following Bursaries, &c., will be open to competition :—

2. One of the *Webster* Bursaries, value £60, tenable for three years, open to Students entering on their *first* Session in Divinity who have passed all their examinations for the Degree of M.A., in any Scottish University, whether they have actually graduated or not. The holder of this Bursary will not be allowed to engage in teaching or other work interfering with studies unless by permission of the Faculty of Divinity.

2. One of the *Ettles* Bursaries, of about £40, tenable for three years, open to Students in the same position as stated above in regard to the *Webster* Bursary.

3. A *Struthers* Bursary, value £13, 17s 9½d, tenable for three years, also open as above.

4. A *Penman* Bursary, value £8, tenable for four years, open to any Student entering on his *first* Session in Divinity.

5. A *Thomson* Bursary of £25. Application to the made to Messrs Traquair, Dickson & Maclaren, 11 Hill Street.-

The subjects of examination for the above and for any other ordinary competition Bursary for first year's Students that prove to be vacant at the opening of the Session will be—

(1.) *Latin*—"Horace's Odes," Books I., II., III., and translation from English into Latin prose.

(2.) *Greek*—Homer's "*Iliad*," Books XXIII. XXIV., and Collossians as in Ellicott.

(3.) *Mathematics*—"Euclid," Books I.-IV., and Algebra to Quadratic Equations, inclusive.

(4.) *Metaphysical Philosophy*—Dugald Stewart's "*Dissertation on the History of Metaphysics*."

(5.) *Moral Philosophy*—Mackintosh's "*Dissertation on the History of Ethics*."

(6.) *Natural Philosophy*—Balfour Stewart's "*Elementary Physics*."

(7.) *Hebrew*—Elements of Grammar.

(8.) *Apologetics*—Paley's "*Evidences of Christianity*."

5. *Grierson Bursaries*.—There are three Grierson Bursaries in the Faculty of Divinity, awarded at the beginning of Session 1878-9. See CALENDAR for 1877-8, p. 356 and p. 372.

If any students from the parishes of Crawford or Leadhills, commencing his Theological Curriculum, shall lodge an application with the Secretary of Senatus on or before October 31, 1877, and shall satisfy the Senatus (1.) that he is steady and well-behaved, and has shown himself to be a diligent student in the University; and (2.) that he requires pecuniary aid to enable him to pursue his studies; a Grierson Bursary shall be awarded to him tenable for three years. In the event of there being more than one such applicant in any year, the Bursary shall be awarded to the one who shall prove himself to be best qualified on examination in the subjects required to have been studied in the Faculty of Arts before entering the Divinity Hall.

Failing such an appointment of a preferential candidate being made, the Bursary shall be tenable for periods of one year only, and shall be conferred during three successive years in the manner following, viz:—

(1.) For the first year the Bursary shall be bestowed by competitive examination in the subjects required to have been studied in the Faculty of Arts before entering the Divinity Hall, among all candidates then commencing the first year of their theological course.

(2.) For the second year the Bursary shall be bestowed on a student commencing the second winter session of the Theological Curriculum, from the parishes of Crawford or Leadhills, who shall apply and show himself qualified as above mentioned.

Failing any such appointment of a preferential candidate, it shall be thrown open for competition to all students commencing the second year of their Theological course. The candidates to be examined in Latin and Greek, Hebrew, Divinity, some prescribed period of Ecclesiastical History, and some prescribed subjects in Biblical Criticism; an equal number of marks to be assigned to each of these five branches in awarding the Bursary.

(3.) For the third year the Bursary shall be bestowed on a student from the favoured parishes commencing the third year of his Theological course, who shall apply and show himself qualified as above mentioned.

Failing an application of any such student, it shall be thrown open in competition to all students of divinity who are then enrolling in the University for the third year of their Theological course, under the same conditions, and the examination to be on the same subjects as in the case of the other Bursaries in the Faculty of Divinity.

Competition, if there be one, will be as follows:—

For the first year—

Same as for ordinary Competition Bursaries (see *ante*, p. 365), except that *Hebrew* and *Apologetics* are omitted.

For the second year—

(1.) *Latin*—Horace's Odes Book III., and *Ars Poetica*.

(2.) *Greek*—Greek Testament: Gospel of St Luke, Epistles to Romans and Hebrews.

- (3.) *Hebrew*—Genesis, Chaps. i. to viii. ; Psalms i. to x.
- (4.) *Divinity*—
- (5.) *Church History*—To 325 A.D.
- (6.) *Biblical Criticism*—The Pentateuch.

For the third year—

- (1.) *Apologetic Theology*—Theism, Miracles, Prophecy.
- (2.) *Hebrew*—Grammar, and Genesis i. to xvi.
- (3.) *Church History*—A.D. 200 to A.D. 300, and 1500 A.D. to 1600 A.D.
- (4.) *Biblical Criticism*—Colossians in relation to Gnosticism, the Book of Isaiah, and I Corinthians.

Besides the above Competition Bursaries, there will also be vacant:—

- (1.) *M'Lurg* Presentation Bursary, value £8, 6s. 3d.
- (2.) *Bayne* Bursary, £25.
- (3.) *Hepburn** Prize, £25, for the best Essay "On the Age and Authorship of Deuteronomy." The prize will be divided if the Examiners see fit, the prizes being £15 and £10. This prize is open for competition to Students of the Second and Third years in Divinity in Edinburgh, Session 1878-79. Essays must be lodged with the Rev. Dr Stevenson, 9 Oxford Terrace, Edinburgh, on or before Friday the 13th of December 1878, each accompanied by a sealed letter containing the name of the author, which will not be opened till the prize is decided.

II.—At the close of Session 1878-9, the following will be open for competition:—

- 1. The *Aitken* Theological Scholarship, tenable for two years, of the annual value of about £90. The holder is required to attend at least one Semester each year on the continent of Europe.
- 2. One of the *King William* Scholarships of £25, tenable for two years, open to Students who have finished the first session of their Theological course, and have passed all the examinations for the degree of M.A. The subjects of examination for this Scholarship will be the work of the Session in the Classes of Divinity, Church History, Biblical Criticism, and Junior Hebrew.

Faculty of Law.

EDINBURGH UNIVERSITY ENDOWMENT ASSOCIATION'S LAW FELLOWSHIP.

This Fellowship, of the value of £100 for three years, is open to competition among Bachelors of Laws (LL.B.) and Bachelors of Law (B.L.) of the University of Edinburgh of not more than five years' standing. It is to be awarded to the competitor who shall present the

* No Hepburn Bursary (or Prize) for Examination is vacant for Session 1878-9, as those who won them in 1877-8 can hold them for three years.

best Thesis on a subject comprised within the course of study required for the degree of LL.B., to be lodged with the Dean of the Faculty of Law on or before 31st Oct. 1879. The successful Candidate is bound to deliver during each of the second and third years of the Fellowship not less than six lectures on some legal subject. For further information, see under Deeds of New Foundations, p. 373.

BURSARIES OPEN FOR COMPETITION IN OCTOBER 1878.

Three Grierson Bursaries, value about £26 each, tenable for one year.

The Cairns Bursary, value about £20, tenable for one year.

The Sibbald Bursaries are also tenable by Students of the Faculty of Law entering the University for the first time. For further information as to Bursaries, see CALENDAR.

A Thomson Bursary, value £25, application to be made to Messrs Traquair, Dickson & Maclaren, W.S., 11 Hill Street.

FORENSIC PRIZE.

This Prize, founded by the Forensic Society, will be awarded to the Graduate in Law who has passed with most distinction in four subjects at the Law Graduation in June 1878.

Faculty of Medicine.

MEDICAL FELLOWSHIPS, SCHOLARSHIPS, BURSARIES, AND PRIZES.

FELLOWSHIPS.

The Falconer Memorial Fellowship, value £100, tenable for two years. It is for the encouragement of the study of Palæontology and Geology, and is open to Graduates in Science or Medicine of the University of not more than three years' standing. The next appointment may be made in April 1880.

The Syme Surgical Fellowship, value about £100, tenable for two years, open to competition among Bachelors of Medicine of not more than three years' standing, who shall present the best Thesis on a Surgical subject, giving evidence of original research. The Fellowship may be awarded in August 1879. Theses in competition must be given in before 30th April 1879.

SCHOLARSHIPS.

The Sibbald Scholarship, value about £40, tenable for four years. The next vacancy may be in 1879.

A Hope Scholarship, value about £30, will be awarded in March 1879; particulars as to which may be obtained on application to the Professor of Chemistry.

BURSARIES.

The Abercrombie Bursary of £20, tenable for four years, is open to students who have been brought up in Heriot's Hospital, during their medical curriculum. Information as to this Bursary will be got from the Treasurer of Heriot's Hospital.

One Sibbald Bursary may be vacant in Session 1877-78. Information as to it will be got from Messrs Mackenzie, Innes and Logan, W.S., 23 Queen Street, Edinburgh.

The *Thomson Bursaries*, value £25 each, tenable for four years, to be competed for by Students entering on their first Winter Session. A preference to be given to Candidates of the names of Thomson or Traquair, or natives of the town or county of Dumfries, or of the city of Edinburgh. Two of the above Bursaries will be competed for in October 1878. Information as to these Bursaries will be got from Messrs Traquair, Dickson & Maclaren, W.S., 11 Hill Street, Edinburgh.

Three Grierson Bursaries of £20 a-year each, to be awarded to natives of the Parishes of Crawford and Leadhills. In the absence of such preferential Candidates each Bursary shall be tenable for one year only, and will be open to competition—one Bursary to be awarded to the Student who shall pass the best examination of the year in the subjects of the Preliminary Examinations, which have to be passed before the First Professional Examination; One Bursary to the Student commencing the Second Winter Session who shall pass the best Examination in Chemistry, Botany, and Natural History; One Bursary to the Student commencing the Third Winter Session who shall pass the best examination in Anatomy and Physiology.

One Tyndall Bruce Bursary of £25, tenable for one year, to be competed for by Students who have reached the end of their third Winter Session—subjects of examination, *Materia Medica* and *Pathology*. To be awarded in October 1878.

Competitors for the above Bursaries must have studied the subjects of Examination at the University of Edinburgh; and they are not to be held along with any other Bursary, Scholarship, or Fellowship.

PRIZES.

The Medical Faculty Medals.—Gold Medals are given on the day of Graduation to Doctors of Medicine whose Theses are deemed worthy of that honour.

The Ettles Medical Prize is awarded annually to the graduate in medicine whom the Medical Faculty may consider the most distinguished of the year. Value about £40.

The Beaney Prize will be awarded annually to the Candidate for the Degrees of M.B. and C.M. who, after having attended within the University courses of Anatomy, Surgery, and Clinical Surgery, qualifying

for Graduation, shall obtain the highest number of marks in those subjects during his Examinations for these degrees.

The Hope Chemistry Prize, open to all students of the University of not more than twenty-five years of age, who have worked for eight months, or for two summer sessions, in the chemical laboratory of the University, will be filled up in July 1879. Names to be given in to the Professor of Chemistry on or before 26th June. Value £100.

The Neil Arnott Prize, of about £40, is awarded to the Candidate who shall pass with the greatest distinction the Ordinary Examination in Natural Philosophy for the degree of M.A. Candidates must have been Medical Students of this University during either a summer or a winter session, and the successful Candidate must continue a Medical Student of this University during the winter session. No Student can appear for examination after the completion of his third *annus medicus*; no Candidate shall be allowed to offer himself more than once.

The Ellis Prize is awarded triennially for the best Essay or Treatise on some subject of Animal or Vegetable Physiology to be proposed by the Faculty for competition to students or graduates of five years' standing. The next competition may be in 1879. Due notice will be given of the subject. Value, proceeds of about £500 accumulated for three years.

The Goodsir Memorial Prize of £60 is awarded triennially. Next award may be in 1878. Theses in competition to be lodged on or before 30th April with the Professor of Anatomy.

The Wightman Prize. For particulars, see p. 344.

LECTURESHIP.

The Swiney Lectureship on Geology, value £144, tenable for five years, is open to Doctors of Medicine of the University of Edinburgh. It is in the patronage of the Trustees of the British Museum.

Deeds of New Foundations.

I. DEED OF FOUNDATION OF "THE BEANEY PRIZE."

WE, the principal and whole other members of the Senatus Academicus of the University of Edinburgh (one-third of our number being a quorum, under the Act of Parliament twenty-first and twenty-second Victoria, chapter eighty-three), considering that James George Beane, Esquire, Fellow of the Royal College of Surgeons of Edinburgh, senior surgeon to the Melbourne Hospital, in the colony of Victoria, Australia, has recently given the sum of one thousand pounds sterling to the University of Edinburgh for the foundation and endowment of a prize in connection with the Faculty of Medicine in said University to be awarded annually at the Graduation Ceremonial in Medicine, to the graduate in medicine and surgery of the year, who, having attended within the University courses on anatomy, surgery, and clinical surgery, qualifying for graduation, shall obtain the highest number of marks during his examinations in these subjects for the degrees of Bachelor of Medicine and Master of Surgery; and that it now falls upon us to declare the purposes for which we hold the said sum, Therefore we do hereby mortify the said sum of one thousand pounds sterling to and in favour of the University of Edinburgh, and of ourselves and our successors in office as the Senatus Academicus thereof for the foundation and endowment of a prize to bear the name of "The Beaney Prize," in connection with the Faculty of Medicine in the said University, the said prize to be annually awarded under the following conditions and regulations, videlicet—*First*, The said prize shall consist of the free income of the said mortified fund for one year, that is the income for one year after deduction of any necessary expenses; and the first award of the said prize shall be made at the annual graduation ceremonial in medicine in the year one thousand eight hundred and seventy eight, and so forth annually thereafter; *Second*, The said prize shall be in the gift of the Medical Faculty of the said University, who shall have power to award the same; *Third*, The said prize shall be awarded at the Graduation Ceremonial in Medicine annually to the graduate in medicine and surgery of the year, who, having attended within said University courses in anatomy, surgery, and clinical surgery, qualifying for graduation, shall

obtain the highest number of marks in these subjects in the examinations for the said degrees of Bachelor of Medicine and Master of Surgery ; and *Lastly*, We the said Senatus Academicus, and our successors in office, shall be entitled in any year to withhold the said prize in the event of no student passing the said examinations with sufficient merit, and to make such further regulations from time to time as may be considered by us, or our successors in office, expedient for the administration of said fund, so as more effectually to carry out the benefit to the University intended by the said James George Beaney in founding the said prize ; and we, the said Senatus Academicus, and our successors in office, shall have power to lay out and invest the said mortified fund on good and approved heritable securities, or in the purchase of well secured feu duties, or of debentures or debenture stock of well established lines of railway paying dividends on their ordinary stock, or in the purchase of Government stock, or of stock of the Bank of Scotland, or British Linen Company ; declaring that we, the said Senatus Academicus, and our successors in office, shall not be responsible for the sufficiency or insufficiency of the security or investments on which the said sum may be invested ; and we consent to registration hereof for preservation—IN WITNESS WHEREOF, &c.—Dated 23 February 1878.

II.—DEED OF FOUNDATION OF ADDITIONAL MISSES BAXTER OF BALGAVIES SCHOLARSHIP.

WE, the Principal and whole other members of the Senatus Academicus of the University of Edinburgh (one-third of our number being a quorum, under the Act of Parliament twenty-first and twenty-second Victoria, chapter eighty-three),—Considering that by Deed of Mortification, dated the twenty-fourth day of February, and recorded in the Books of Council and Session on the eighth day of March, both in the year one thousand eight hundred and sixty-nine, granted by Miss Mary Ann Baxter of Balgavies in favour of the University of Edinburgh, the said Miss Mary Ann Baxter gave, granted, and mortified the sum of two thousand five hundred pounds sterling, to and in favour of the said University and the Senatus Academicus thereof, for the foundation and endowment of two scholarships, to bear the name of “The Misses Baxters of Balgavies Scholarships” in the said University, by which deed of mortification it was provided that the said Senatus Academicus should have full power, if from accumulations of revenue the mortified fund increased to such a degree as to justify, in their estimation, such a course, to found and institute one or more new scholarships or bursaries of inferior value in connection with the High School of Dundee, and to make all necessary regulations for the administration of such new scholarships or bursaries ; it being thereby left to the Senatus to decide in what departments of study the said new scholarships shall be, the period of tenure thereof, and every other condition relating thereto ; and now seeing that from accumulations of revenue there is now at our com-

mand a sum of five hundred pounds sterling, which we propose to add to the mortified fund under the said deed of mortification, and therewith to found and institute one new scholarship under said mortification of the yearly value of twenty pounds sterling: Therefore, in exercise of the power possessed by us under the said deed of mortification, we do hereby found and institute one new or additional scholarship of the yearly amount or value of twenty pounds sterling, under the said mortification in connection with the said High School of Dundee, and provide and declare that the said new or additional scholarship shall always be governed by and be subject to the same conditions and regulations as are contained in or may be made by us, or our successors in office, under the said deed of mortification, in regard to the original scholarships thereby founded; Reserving always to us, and our successors in office, full power in accordance with the said deed of mortification, to make such further regulations from time to time as we or our foresaids may consider desirable for the administration of the said original scholarships and the new or additional scholarship hereby founded, or any of them, such regulations not being inconsistent with the conditions laid down or provided for in the said deed; and we consent to the registration hereof for preservation. IN WITNESS WHEREOF, &c.—Dated 15th December 1877.

III.—MINUTE OF ACTING COMMITTEE OF EDINBURGH UNIVERSITY ENDOWMENT ASSOCIATION PROVIDING FOR A LAW FELLOWSHIP.

THE Acting Committee considering that at the Annual General Meeting of the Association, held on twenty-ninth January eighteen hundred and seventy-eight, it was resolved—"That a sum of £300 of annual funds be appropriated to the support of a competitive scholarship in the Faculty of Law, of £100 a-year, tenable for three years, subject to the conditions usually attached to Scholarships by the Association; the Acting Committee to have power, after communication with the Senatus Academicus, to add a condition requiring the scholar to deliver a short course of lectures on some subject of legal study, or to perform some other duty in connection with the Scholarship; and the Acting Committee to have further power to adjust finally all the terms and conditions of the Scholarship, and to provide the said sum of £300 of annual funds for its support;" and further considering that it is desirable that this foundation, being open only to graduates, should bear the designation of "Fellowship," instead of "Scholarship;" and having duly communicated with the Senatus Academicus, and being now ready to carry out the said resolution of the Annual General Meeting, Resolve to set aside the sum of three hundred pounds of the funds of the Association applicable to annual purposes, for the support of a Law Fellowship in the University of Edinburgh, on the following conditions, namely:—

First, The Fellowship shall bear the name of the "Edinburgh University Endowment Association's Law Fellowship."

Second, The Patronage of the Fellowship shall belong to the Senatus Academicus of the University.

Third, The Fellowship shall be open to competition among Bachelors of Laws (LL.B.), and Bachelors of Law (B.L.) of the University of Edinburgh, of not more than five years' standing at the time of the competition.

Fourth, The Fellowship shall be awarded to the competitor who shall present the best thesis on a subject comprised within the course of study required for the Degree of Bachelor of Laws (LL.B.) in the University; provided always that any competitor who has published an original treatise, or original writings on such a subject, may present such treatise or writings instead of a special thesis.

Fifth, The Theses, Treatises, or Writings presented for the competition shall be lodged with the Dean of the Faculty of Law on or before the thirty-first day of October, in the year eighteen hundred and seventy-nine.

Sixth, The Fellowship shall be tenable for three years, and the annual payment shall be one hundred pounds, payable in equal portions at the terms of Martinmas and Whitsunday in each year, the first payment to commence at the term of Martinmas eighteen hundred and seventy-nine, or as soon thereafter as an appointment is made to the Fellowship; and the amount of the said half-yearly payments shall be placed in the hands of the Senatus Academicus for payment thereof to the Fellow.

Seventh, The examination of the Theses, Treatises, or Writings presented by the competitors for the Fellowship shall be conducted by the Professors and other examiners in the Faculty of Law.

Eighth, The said examiners shall, before the end of the year eighteen hundred and seventy-nine, report their opinion of the result of the competition to the Senatus, who shall appoint to the Fellowship the candidate who appears by the Report to be best qualified; but if the said Examiners shall be equally divided in opinion, or shall report that two or more of the candidates have an equal claim to the Fellowship, the Senatus shall take such further measures as they may think proper for deciding as to the relative proficiency of such candidates, and shall appoint to the Fellowship the candidate who shall then appear to be best qualified; provided always that if the examiners shall report that no Thesis, Treatise, or Writings have been presented of sufficient merit to entitle the author to the Fellowship, no appointment shall be made thereto, and the Fellowship shall be open to competition in the year eighteen hundred and eighty, or subsequent years, until an appointment is made; and the conditions of the competition in such case shall be the same as herein provided with reference to the year eighteen hundred and seventy-nine, unless altered under the provisions of section *Thirteenth* hereof.

Ninth, The successful candidate shall be bound to deliver, under ar-

rangements to be made by the *Senatus Academicus*, during each of the second and third of the University sessions for which the Fellowship is tenable, a separate course of not less than six lectures on some legal subject to be selected by him, subject to the approval of the Faculty of Law.

Tenth, In case of the candidate appointed to the said Fellowship ceasing, during the currency of the term for which he is appointed, to hold the Fellowship, owing to death, resignation, or any other cause, such part of the said sum of three hundred pounds as shall not have become payable to him, shall belong to the Association, and any part thereof which may have been placed in the hands of the *Senatus Academicus* shall be repaid to the Association.

Eleventh, In the case of what the *Senatus Academicus* shall consider gross misconduct on the part of the holder of the Fellowship, they shall have power to suspend him from, or to deprive him of, the Fellowship, subject to an appeal to the University Court, if taken within eight days; but, in the meantime, the decision of the *Senatus Academicus* shall receive effect from its date.

Twelfth, The time of the competition shall be publicly intimated by the *Senatus* at least six months before the competition; but they shall have power to alter the time if it seems necessary to them to do so, but not to a date earlier than the first day of October in nor later than the end of the year eighteen hundred and seventy-nine.

Thirteenth, If no appointment shall be made to the Fellowship in respect of the competition to be held in the year eighteen hundred and seventy-nine, or any subsequent year, it shall be in the power of the Association, on the recommendation of the *Senatus Academicus*, to alter the conditions for the Fellowship.

IV.—EXTRACT FROM THE MINUTES OF THE ACTING COMMITTEE OF THE ASSOCIATION FOR THE BETTER ENDOWMENT OF THE UNIVERSITY OF EDINBURGH, of date 12th March 1878, providing for five Bursaries in the Faculty of Arts, for three years each.

The Acting Committee considering that at the Annual General Meeting of the Association, held on 29th January 1878, it was resolved —“That a sum not exceeding £300 of Annual Funds be appropriated to the support of some unrestricted competition Bursaries for Students entering the Faculty of Arts:—the Acting Committee to have power, after communication with the *Senatus Academicus*, to adjust finally all details as to the number, value, years of tenure, and other conditions of the Bursaries, and to provide a sum of Annual Funds not exceeding £300 for their support;” and having held due communication with the *Senatus Academicus*, as required by the said Resolution of the Annual General Meeting,—RESOLVE to set apart the sum of £300 of the Funds of the Association, applicable to annual purposes, for the support of

five Bursaries in the Faculty of Arts in the University of Edinburgh, on the following conditions, namely :—

First, The Bursaries shall bear the name of the “Edinburgh University Endowment Association’s Arts Bursaries.”

Second, The patronage of the Bursaries shall belong to the *Senatus Academicus* of the University.

Third, Three of the Bursaries shall be open to competition at the commencement of Session 1878-79, and the other two at the commencement of Session 1879-80.

Fourth, The Bursaries shall be open to competition among all Students entering the Faculty of Arts for the first time in the Session at the commencement of which they are open for competition.

Fifth, The Competitive Examination for the Bursaries shall take place at the time, on the subjects, and under the conditions appointed by the *Senatus* for the Annual Arts Bursary Competition for Students entering the Faculty of Arts for the first time.

Sixth, Each Bursar shall be entitled to hold his Bursary for three years, and no longer, subject to the conditions that he shall proceed through the curriculum in Arts in the University, and shall pass the Examinations required for the Degree of Master of Arts ; but if he shall fail to comply with these conditions, he shall forfeit his Bursary.

Seventh, The annual payment to each Bursar shall be £20, payable in equal portions at the terms of Martinmas and Whitsunday in each year ; the first payment to commence, in each case, at the term of Martinmas of the year in which the appointment to the Bursary is made ; and the amount of the said half-yearly payments shall be placed in the hands of the *Senatus Academicus* for payment thereof to the Bursars.

Eighth, In case of any person appointed to any of the Bursaries ceasing, during the currency of the term for which he shall have been appointed, to hold his Bursary, owing to death, resignation, or other cause, the *Senatus Academicus* shall, under the Rules for the time being on such matters, appoint a Student of the same standing as the person vacating the Bursary, to hold it for the remainder of the term of tenure, subject to the same conditions, so far as applicable.

Ninth, It shall not be competent for the holder of any one of the said Bursaries to hold it along with any other Fellowship, Scholarship, or Bursary, in any Scottish University ; and the right of the holder of any of the Bursaries shall terminate on his obtaining and accepting any such other Scholarship, Fellowship, or Bursary.

Tenth, In case of what the *Senatus Academicus* shall consider gross misconduct on the part of the holder of any one of the Bursaries, the *Senatus* shall have power to suspend him from, or deprive him of, his Bursary, subject to an appeal to the University Court, if taken within eight days ; but, in the meantime, the decision of the *Senatus Academicus* shall receive effect from its date.

Eleventh, So far as not herein specially provided, the Bursaries shall

be subject, in all respects, to the Regulations for the time being of the Senatus Academicus relative to Arts Bursaries; and the Senatus shall have power, with the consent of the Acting Committee, to alter any of the conditions herein contained.

Twelfth, The Senatus Academicus shall have power to alter the designation of the Bursaries to that of "Exhibition" or "Scholarship," or such other designation as may be thought proper, should any general alteration of the nomenclature of such Foundations be adopted.

V.—EXTRACT FROM THE WILL OF THE LATE ANDREW ROBERTSON CAMERON, M.D., of Richmond, N.S. Wales.

"I give and devise the sum of two thousand pounds to the University of Edinburgh to be held in trust to invest the same in Government or real securities, and apply the annual proceeds thereof in establishing a prize to be given in each and every year to the practitioner or member of the medical profession who shall be adjudged to have made the most valuable addition to practical Therapeutics during the year preceding; and I desire, in determining such question, that the word Therapeutics shall be taken in its widest sense, as including every agent or agency capable of influencing the human body in the maintenance or improvement of health, avoidance or cure of diseases, or the alleviation of suffering."

VI. EXCERPT from TRUST - DISPOSITION and SETTLEMENT of the late Mrs Isabella Webster, 38 Heriot Row, Edinburgh, dated 20th Nov. 1876.

"*Fourth*, As I am desirous to encourage young men of learning and talent to qualify themselves for the ministry of the Established Church of Scotland, I direct my trustees so soon as it can conveniently be done after the lapse of twelve months from the period of my death to pay over to the principal and whole other members of the Senatus Academicus of the University of Edinburgh, the sum of four thousand pounds sterling, free of legacy-duty, for the purpose of establishing three permanent bursaries, viz., two of sixty pounds each, and one of forty pounds, tenable for three years, and open to students entering on their first theological session in connection with the Established Church of Scotland, and who have successfully passed all their examinations for the degree of Master of Arts in any Scottish University, whether they have actually graduated or not. The said bursaries shall be awarded by competition, the subjects of examination and mode of conducting the same and all other necessary regulations for carrying my object into effect being left to the judgment and discretion of the said Senatus Academicus. Out of respect to the memory of my late husband, who was for many years an office-bearer of, and felt a deep interest in, the prosperity of the Established Church of Scotland, the said bursaries shall in all time coming be called 'The Webster Bursaries.'"

Annual Salaries, &c.

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ANNUAL SALARIES (EXCLUSIVE OF CLASS FEES) ATTACHED TO THE OFFICE OF PRINCIPAL, AND TO THE PROFESSORSHIPS, ASSISTANTSHIPS, AND EXAMINERSHIPS IN THE UNIVERSITY, BY ORDINANCE OF UNIVERSITIES COMMISSIONERS AND SUBSEQUENT DEEDS OF FOUNDATION.

PRINCIPAL.

Salary, and Official Residence, - - £1200 0 0

FACULTY OF ARTS.

	Salaries of Professors.	Salaries of Assistants.	Allowances for Class Expenses.
Humanity - - -	£247 10 0	£100 0 0	.....
Mathematics - - -	258 6 8	100 0 0	.....
Greek - - -	247 4 4	100 0 0	.....
Logic and Metaphysics -	322 4 4	.....	.....
Moral Philosophy - -	322 4 4	.....	.....
Natural Philosophy -	282 4 4	100 0 0	£100 0 0
Rhetoric and English Literature - - -	280 0 0	.....	.....
History - - -	170 0 0	.....	.....
Practical Astronomy -	320 0 0*	.....	.....
Agriculture - - -	370 0 0	.....	.....
Music - - -	420 0 0	200 0 0	100 0 0
Sanskrit - - -	450 0 0	.....	.....
Engineering - - -	400 0 0	.....	31 0 0
Geology - - -	420 0 0	.....	49 0 0
Political Economy - -	450 0 0	.....	50 0 0
Class Prizes in do., - - -	- - -	- - -	24 0 0
Education - - -	210 0 0	.....	.....

FACULTY OF DIVINITY.

Divinity (present value)	£426 2 2	.....	.....
Hebrew - - -	300 0 0	.....	.....
Church History - -	350 0 0	.....	.....
Biblical Criticism (present value)	630 0 0	.....	.....

* The Professor is also Astronomer Royal.

FACULTY OF LAW.

	Salaries of Professors.	Salaries of Assistants.	Allowances for Class Expenses
Public Law - - -	£250 0 0	.....	.....
Civil Law - - -	250 0 0	.....	.....
History - - -	(See under Faculty of Arts.)		
Scots Law - - -	100 0 0	.....	.....
Medical Jurisprudence -	(See under Faculty of Medicine.)		
Conveyancing - -	105 0 0	.....	.....

FACULTY OF MEDICINE.

Botany - - -	£200 0 0*	.....	.....
Institutes of Medicine -	150 0 0	.....	.....
Practice of Physic - -	100 0 0	.....	.....
Anatomy - - -	.....	.....	£200 0 0
Chemistry - - -	200 0 0	£200 0 0	100 0 0
Midwifery - - -	100 0 0	.....	.....
Natural History - - -	195 15 2 ³ / ₄	.....	.....
Materia Medica - - -	100 0 0	25 0 0	50 0 0
Clinical Surgery - - -	100 0 0	.....	.....
Medical Jurisprudence -	100 0 0	25 0 0	35 0 0
Surgery - - -	100 0 0	.....	.....
General Pathology - -	100 0 0	.....	.....

In addition to the permanent allowances for Assistants and Class Expenses entered above,—annual grants for the same purposes have for some time been made by the Senatus Academicus from the General University Fund. The amount for 1876-7 was:—

For Assistants, - - -	£880 0 0
For Class Expenses, - -	202 7 6

£1,082 7 6

ADDITIONAL EXAMINERS FOR DEGREES

	Salaries.
In Arts { Classical Literature - - -	£80 0 0
{ Mental Philosophy - - -	80 0 0
{ Mathematics - - -	80 0 0
In Medicine—13 Examinerships at £50 each, -	650 0 0
In Divinity, two Examiners, each £21, -	42 0 0
In Law, two Examiners, a share of Fees not to exceed £21 each, -	42 0 0
In Science, one Examiner in Civil Engineering,† -	0 0 0

* This includes £100 formerly paid to the Regius Keeper of the Botanic Garden.

† Salary not yet fixed.

SUMMARY,
INCLUDING ANNUAL GRANTS BY SENATUS.

	Salaries.
Principal - - - - -	£1,200 0 0
Chairs in the Four Faculties - - - - -	9,026 11 4
Assistants - - - - -	1,730 0 0
Examiners in Arts, Medicine, Divinity and Law, -	974 0 0
Allowances for Class Expenses - - - - -	941 7 6
	<hr/> £13,871 18 10 <hr/>

STATEMENT

SHOWING THE CAPITAL OF THE UNIVERSITY IN 1877,
AND INCOME AND EXPENDITURE FOR THE
YEAR 1876-77.

The University is maintained—1. By interest, &c., accruing from Capital Funds in charge of the Senatus Academicus; 2. by do. on a Fund in charge of the University Court; 3. by Annual Payments made from Crown and Parliamentary Grants, and from an annuity payable by Act of Parliament out of the Revenues of the Harbour and Docks of Leith; 4. by Matriculation, Graduation, and other Fees, paid annually; and 5. by annual payments by public bodies or private persons, and from Bursary Funds, of which neither principal nor interest is in the hands of the Senatus. The income derived from the last of these sources is omitted from the present Statement, because the Senatus have not hitherto been able to obtain the necessary information for determining its amount, having no control over these funds or the application of them. The total amount is believed to be upwards of £1600 annually.

A.—CAPITAL IN CHARGE OF THE SENATUS ACADEMICUS,
INCLUDING FLOATING BALANCES.

As at 31st August 1877.

I.—DESTINED FOR SPECIAL PURPOSES BY DEED, STATUTE, OR
ORDINANCE.

I. For Salaries of Professors, viz. :—

(1.) Pulteney Found. (Agricul. Chair).	£958	4	6
(2.) Thomson Found. (4-5ths Nat. Hist. Chair), - - - - -	911	13	1
(3.) Muir Foundation (Sanskrit Chair,) 6,578	5	6	
(4.) Reid Foundation (Music Chair,) 12,000	0	0	
(5.) Baxter Found. (Engineering Ch.) 5,000	0	0	
(6.) Murchison Found. (Geology Ch.) 5,000	0	0	

Carry forward, £30,448 3 1

Statement of Capital.

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	Brought forward,	£30,448	3	1	
(7.)	Watson Gordon Foundation (Fine Art Chair, to be after- wards instituted),	-	-	10,099	11 0
(8.)	Bell Found. (Education Chair)	-	-	6,000	0 0
(9.)	Chair of Commercial and Poli- tical Economy, and Mercan- tile Law (balance on hand),*	-	-	0	6 7
	TOTAL,			£46,548	0 8
2.	For Class Expenses and Assistants:—				
(1.)	Reid Found. (Music Chair),	£8,500	0	0	
(2.)	Baxter Found. (Engineering Ch.),	972	14	6	
(3.)	Murchison Found. (Geology Ch.),	1039	14	11	
(4.)	Thomson Foundation (1-5th Mineralogy),	-	-	229	14 6
(5.)	Watson Gordon Foundation, not yet in operation,	-	-	1,000	0 0
	TOTAL,			11,742	3 11
3.	For Reid Commemoration Concert -	-	-	8,000	0 0
4A.	For Scholarships and Bursaries intrusted to Senatus:—				
(1.)	Macpherson Bursary -	£2,954	6	10	
(2.)	Jardine Bursary -	1,020	1	0	
(3.)	Shortt Bursary, -	237	11	4	
(4.)	Tarsappie Bursary, -	109	10	2	
(5.)	Pitt Scholarships -	5,167	10	2	
(6.)	Sir David Baxter's Scholarships	6,613	18	11	
(7.)	Misses Baxter's Scholarships -	3,150	3	0	
(8.)	Mackenzie Scholarship -	3,054	13	0	
(9.)	Gray Scholarships -	2,004	19	0	
(10.)	Bruce of Grangehill & Falkland's Scholarships and Bursaries	14,318	9	9	
(11.)	Guthrie Fellowship -	2,537	2	2	
(12.)	Horsliehill Scott Bursaries -	2,060	18	7	
(13.)	Maxton Scholarship -	1,121	3	4	
(14.)	Drummond Scholarship -	2,667	19	2	
	Do., For Examiners' Fees	250	4	1	
(15.)	Hamilton Scholarship -	2,601	15	4	
	Do., For Examiners' Fees	152	7	7	
(16.)	Ettles Divinity Scholarships -	2,976	1	4	
(17.)	Do., Medical Scholarship -	1,001	1	1	
(18.)	Harrison Bursary -	948	15	3	
(19.)	Ardvoirlich Bursary -	374	5	5	
(20.)	Shaw Fellowship -	4,343	18	6	

Carry forward, £59,666 9 0 £66,290 4 7

* No Capital—Income derived from annual payment by governors of George Watson's and Daniel Stewart's Hospitals.

	Brought forward	£59,666	9	0	£66,290	4	7
(21)	Falconer Fellowship -	-	2,817	17	7		
	Do. For Examiners' Fees		110	0	1		
(22.)	Syme Fellowship -	-	2,872	11	4		
	Do., For Examiners' Fees		245	7	0		
(23.)	Charles Maclaren Scholarship		2,648	17	1		
	Do., For Examiners' Fees		173	13	1		
(24.)	General Lang's Scholarship (ultimately £3000), to account		310	10	0		
(25.)	Neil Arnott Scholarship -	-	1,119	10	3		
(26.)	Cairns Bursary -	-	490	19	0		
(27.)	Grierson Bursaries (balance on hand)*		19	18	0		
(28.)	Rhind Scholarships -	-	4,761	13	3		
(29.)	Glover Scholarship -	-	851	2	5		
(30.)	Aitken Scholarship -	-	2,570	6	9		
(31.)	John Edward Baxter Scholarships		7,500	0	0		
	Do., For Examiner's Fees		254	15	0		
(32.)	Fotheringham and Forrest Bursaries -	-	1,031	19	2		
(33.)	Johnston of Harthope Bursary		506	14	2		
(34.)	Marshall Bursary -	-	1,011	13	0		
(35.)	Leith Harbour Annuity Fund— Accumulations of Arrears of Bursaries payable therefrom		572	13	8		
					<hr/>		
					£89,536	9	10

4B. For Prizes, Do. :—

(1.)	Hope Prize -	£2,418	18	3
(2.)	Neil Arnott Prize	1,171	9	10
(3.)	Ellis Prize -	670	1	4
(4.)	Muir Prizes in Sanskrit, and Comparative Philology			
	Capital applicable	134	7	4
(5.)	Scott & Dunbar Prize	72	3	9
(6.)	Wightman Prize	314	13	10
(7.)	Robert Wilson Prize	250	4	9

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(8.)	Mackenzie Prizes,	£5,031	19	1
	Deduct outlay	3	1	0

<hr/>				
TOTAL				
<hr/>				
5,028 18 1				
<hr/>				
94,565 7 11				

Carry forward £160,855 12 6

* Capital not in hands of Senatus.

Statement of Capital.

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	Brought forward	£160,855	12	6
5. For Bursaries and Prize intrusted to individual Members of Senatus and others :—				
(1.) Dundas Bursaries	-	£1,122	5	5
(2.) Patrick Bursaries	-	3,301	0	9
(3.) Goodsir Prize	-	856	16	10
	TOTAL	-	5,280	3 0
6. Principal's Official Residence	-		4,694	0 0
7. For Completion of present College Buildings :—				
Robert Cox's Bequest, with interest	-		3,190	0 5
8. For Extension of University Buildings,—Balance of rents on hand	-		455	4 3
			<u>£174,475</u>	<u>0 2</u>

II.—CAPITAL, THE INCOME OF WHICH IS APPLICABLE FOR THE GENERAL PURPOSES OF THE UNIVERSITY.

(1.) Genl. Reid's Trust Fund, Balance after setting aside sufficient Capital to provide Income for Special Purposes as above	£20,000	0	0
(2.) General Sir Joseph Straton's Trust Fund	-	14,054	7 7
(3.) Robert Cox's Bequest	-	1794	14 8
			<u>35,849 2 3</u>

III.—DISPOSABLE CAPITAL BELONGING TO GENERAL UNIVERSITY FUND.

1. Heritable Securities	-	£8,989	16	4
2. Railway Debentures	-	3,500	0	0
3. Balances in Bank, &c.	-	1,505	15	1
Total Disposable Capital			<u>13,995</u>	<u>11 5</u>

Total Capital in charge of Senatus, £224,319 13 10

B.—CAPITAL INVESTED IN NAME OF THE UNIVERSITY COURT.

SPECIALLY DESTINED BY DEED.

Baxter Fund, for further Endowment of the Chairs in the Faculty of Arts, excepting Engineering and Sanskrit, £18,000 0 0

C.—INCOME OF THE UNIVERSITY DESTINED BY DEED, STATUTE, OR ORDINANCE, 1876-77.

1. For Salaries of Professors :—

(1.) From Interest, &c., of Funds in Charge of the Senatus. See Statement of Capital, A. I. 1 £1,358 5 2

Carry forward £1,358 5 2

	Brought forward	£1,358	5	2	
(2.)	From Leith Harbour Annuity -	1,129	5	0	
(3.)	From Parliamentary Grants prior to Universities Commission -	1,210	0	0	
(4.)	From Parliamentary Grants by Financial Ordinance of Universities Commission, and Sanskrit Chair Ordinance	3,104	0	0	
(5.)	From Parliamentary Grants since the Universities Commission -	850	0	0	
(6.)	From Deanery of the Chapel Royal	900	0	0	
(7.)	From Land Revenues of the Crown	100	0	0	
(8.)	Foundation for Conveyancing Chair, paid yearly by Society of Clerks to H.M. Signet -	105	0	0	
(9.)	From Funds of George Watson's and Daniel Stewart's Hospitals	450	0	0	
(10.)	From Interest of Fund in charge of University Court. See Statement of Capital, B. (Subject to deduction for Expenses) -	625	0	0	
					9,831 10 2
2.	For Class Assistants and Class Expenses :—				
(1.)	From Reid Fund for Music Chair. See Statement of Capital. A. I. 2 - - - -	£300	0	0	
(2.)	From the Gen. Univ. Fund, for the Chairs of Chemistry, Nat. Philosophy, Anatomy, Materia Medica, and Medical Jurispr. d.	733	2	6	
(3.)	From Foundation for Chair of Engineering - - -	30	2	4	
(4.)	From Murchison Foundation for Chair of Geology - - -	39	16	1	
	From Thomson Fund (Mineralogy). for Do. - - -	8	17	10	
(5.)	From New Parliamentary Grant for Class Assistants in Faculty of Arts	400	0	0	
(6.)	From Funds of Geo. Watson's and Daniel Stewart's Hospitals for Chair of Commercial Economy	50	0	0	
					1,561 18 9
3.	For Non-Professorial Examiners in Arts and Medicine, From New Parliamentary Grant - -	-	-	540	0 0
	Carry forward	£11,933	8	11	

	Brought forward	£11,933	8	11
4. For Scholarships, Bursaries, and Prizes :—				
(1.) From Capital Funds in Charge of Senatus. See Statement of Capital, A. I. 4 and 5 -	£4,290	19	9	
(2.) From Leith Harbour Annuity -	424	14	8	
(3.) From Funds of Geo. Watson's and Daniel Stewart's Hospitals for Chair of Commercial Economy	24	0	0	
				<hr/>
				4,739 14 5
5. For Reid Commemoration Concert, from Reid Fund, See A. I. 3	-	-	-	300 0 0
6. For Completion of present College Buildings from Cox Fund. See A. I. 7	-	-	-	119 18 1
7. For Extension of University Buildings—Rents of Houses in Teviot Row, &c.	-	-	-	549 5 4
				<hr/>
Total Destined Income,	-	-	-	<u>£17,642 6 9</u>

D.—TOTAL UNIVERSITY INCOME.

Destined Income as above	-	-	-	£17,642 6 9
General Fund Income, as below	-	£9,874	1 6	
Less Amount destined by Ordinance for Assistants and Class Expenses, entered above, C. 2 (2.)	-	733	2 6	
				<hr/>
				9,140 19 0
				<hr/>
Total University Income	-	-	-	<u>£26,783 5 9</u>

E.—INCOME AND EXPENDITURE OF GENERAL
UNIVERSITY FUND, 1876-77.

I.—INCOME.

1. Matriculation Fees	-	-	-	£2,254 10 0
2. Graduation Fees, viz. :—				
(1.) Arts	-	-	£307 12 0	
(2.) Science	-	-	144 17 0	
(3.) Medicine	-	-	3,049 15 0	
(4.) Divinity	-	-	25 4 0	
(5.) Law	-	-	21 0 0	
				<hr/>
				3,548 8 6
3. Fees for Certificates to Women,	-	-	-	8 8 0.
				<hr/>

Carry forward £5,811 6 0

	Brought forward	£5,811	6	0	
4. Fees of Registration of Members of General Council		207	0	0	
5. Fees of Admission to Library		52	15	6	
6. Compensation for Stationers' Hall Privileges relinquished		575	0	0	
7. Grant from Government to Aid in Maintaining and Repairing Buildings		500	0	0	
8. Interest of Invested Funds and Bank Accounts		485	0	7	
9. From Funds bequeathed to the University for General Purposes, viz.:—					
(1.) General Sir Joseph Straton's Bequest		£540	16	11	
(2.) Two-fifths of Robert Cox's Bequest		71	3	7	
			612	0	6
10. From Funds partly appropriated to Special Pur- poses, the Surplus Revenues of which fall to the General University Fund, viz.:—					
(1.) Leith Harbour Annuity Fund		£638	12	6	
(2.) General Reid's Trust Fund		906	17	11	
			1,545	10	5
11. Miscellaneous Receipts:—					
(1.) For authority to publish Calendar		£50	0	0	
(2.) For use of Rooms for Meetings, &c.		29	0	0	
(3.) From University Post Office		4	2	0	
(4.) Sundries		2	6	6	
			85	8	6
Total General Fund Income,			£9,874	1	6

II.—EXPENDITURE.

I. GENERAL ADMINISTRATION :—

1. <i>University Court</i> —					
(1.) Secretary's Salary		£103	14	0	
(2.) Printing, Stationery, and In- cidents		12	15	0	
			£116	9	0
2. <i>Senatus Academicus</i> —					
(1.) Secretary's Salary		£251	16	4	
(2.) Clerk's Do.		165	0	0	
(3.) Dean of Medical Faculty's Salary		100	0	0	
(4.) Dean of Faculty of Arts, Salary		50	0	0	
(5.) Incidents		100	3	5	
			666	19	9
Carry forward			£783	8	9

	Brought forward	£783	8	9
3. General University Council—				
(1.) Secretary's Salary	-	£9	17	8
(2.) Fees to Registrar and Assistants	-	84	0	0
(3.) Meetings, Advs., &c.	-	30	16	4
				124 14 0
4. Management—				
(1.) Factor's Salary	-	£160	0	0
(2.) Office Incidents, Stationery, &c.	-	9	16	3
(3.) Auditor's Fee	-	25	4	0
(4.) Law Agent's Account	-	54	10	8
				249 10 11
5. Editing Calendar	-	-	-	29 12 8
II. LIBRARIES :—				
1. Librarians' Salaries	-	£802	6	0
2. Books	-	818	2	4
3. Special Grant for Books for Students'				
Reading Room	-	100	0	0
4. Bookbinding,	-	148	8	3
5. Printing	-	49	7	9
6. Stationery	-	47	0	9
7. Freights, Postages, and Incidents,	-	15	12	9
				1,980 17 10
III. MUSEUMS AND TEACHING APPLIANCES :—				
1. Anatomical Museum	-	£187	17	5
2. Botanical Museum	-	50	0	0
3. Natural Philosophy Do.	-	50	0	0
4. Midwifery Do.	-	15	0	0
5. Special Grants for Teaching Appliances, viz. :—				
(1.) To Class of Constitutional Law and History	£10	0	0	
(2.) To Class of Institutes of Medicine	200	0	0	
(3.) To Class of Practical Pathology	100	0	0	
(4.) To Class of Boty.	45	0	0	
(5.) To Class of Surgy.	20	0	0	
		375	0	0
				677 17 5
IV. BUILDINGS :—				
1. Maintenance, Repairs, and Renewals, &c.	-	£1,217	8	0
2. Cleaning, Heating, Lighting	-	409	16	5
Carry forward	£1,627	4	5	£3,846 1 7

	Brought forward	£1,627	4	5	£3,846	1	7
3. Public and Parochial Burdens and Feu Duty	-	225	12	11			
4. Insurances	-	42	17	6			
					1,895	14	10
V. SERVICE :—							
1. Janitor	-	£108	12	8			
2. Music Class Room Keeper	-	30	0	0			
3. Warder and Servitors and their Dress,	-	519	2	7			
					657	15	3
VI. CLASS ASSISTANTS AND CLASS EXPENSES :—							
1. Allocated by Commissioners' Ordinance	-	£733	2	6			
2. Allocated since by Senatus	-	1,082	7	6			
					1,815	10	0
VII. EXAMINERS :—							
1. Divinity	-	£42	0	0			
2. Medicine	-	350	0	0			
3. Law	-	15	15	0			
					407	15	0
VIII. PRINTING AND ADVERTISEMENTS :							
1. Printing	-	£331	0	4			
2. Advertisements	-	64	2	9			
					395	3	1
IX. MEDAL AND PRIZES :—							
1. Class Medals	-	£84	5	0			
2. Class Prizes	-	150	0	0			
					234	5	0
X. GRADUATION EXPENSES, M.D. Stamp Duty deducted							
					6	19	2
XI. INCIDENTAL GRANTS :—							
1. Law Students' Library	-	£20	0	0			
2. Athletic Club	-	10	10	0			
3. University Musical Association	-	10	0	0			
4. Sundries	-	39	11	6			
					80	1	6
Total General Fund Expenditure	-	£9,339	5	5			
Surplus of Income	-	534	16	1			
Together, equal to Income	-	£9,874	1	6			

Benefactors of the University.

THE Revenues of the University were scanty, and inadequate to the encouragement of the higher education and learning in the Scottish metropolis. Scholarships and Fellowships were unknown prior to those quite recently instituted, and the salaries attached to the Chairs are still generally inferior to those of the other Universities of Scotland.

During the early period of its history, the University received a considerable number of small donations and bequests, chiefly for Bursaries. Notices of these may be found in the preceding pages, in the Histories of the University by Bower and Dalzel, and in the Report of the Universities' Commissioners in 1830. A list of early Benefactors to the Library is given at p. 49.

By Act 1 and 2 Vict., cap. 55, the various sums of money mortified in the hands of the Town Council, for the support of the University, amounting to £13,119, were discharged, and an annual payment of £2500 (since reduced to £2170), secured upon the revenues of Leith Docks, is assigned to the University for the purposes of these bequests.

Within the present century, but especially within the last few years, several donations and bequests have been made for Bursaries, Scholarships, and Fellowships, and for the endowment of Chairs. As an increase of liberality for these and other academical purposes, such as the General University Library, may be looked for in the part of the century yet to come, it is proposed to preserve in the CALENDAR a record of the names of successive Benefactors, and the purpose of their benefactions.* The following list includes the chief Benefactors of the present century :—

* An Association exists for the purpose of promoting—1st, The Foundation of Scholarships and Fellowships for the encouragement of the higher learning among the more advanced Students; 2d, The better Endowment of existing Chairs; 3d, The Foundation of new Professorships; and 4th, Other University objects.

The Chancellor of the University is President of this Association; the Hon. Secretary is Archd. Campbell Swinton, Esq.; and the Acting Secretary is John Christison, Esq., W.S., 40 Moray Place, Edinburgh.

(A.)—Founders of Bursaries in the present Century.

- Rev. J. STEWART, South Carolina—Founder of the Stewart Bursaries.
 Sir JOHN M'PHERSON, late Governor-General of India—Founder of the M'Pherson Bursary.
 Rev. R. BLAIR, D.D.—Founder of the Blair Bursaries in Arts and Theology.
 J. STEWART HEPBURN, Esq. of Colquhalzie—Founder of three Theological Bursaries.
 JOHN JAMIESON, Esq. Edinburgh—Founder of the Jamieson Bursary.
 GEORGE PARKER BIDDER, Esq.—Founder of the Jardine Bursary.
 WILLIAM LENNIE, Esq., Teacher, Edinburgh—Founder of the Lennie Bursaries.
 JOHN BRUCE, Esq., Trinity Crescent, Edinburgh—Founder of the Bruce Bursaries.
 M'DIARMID TESTIMONIAL TRUSTEES—Founders of the M'Diarmid Bursary.
 W. PATRICK, Esq. of Roughwood—Founder of the Patrick Bursary.
 JAMES GRAY, Esq. of Baadpark—Founder of the Gray Bursaries.
 EDINBURGH CAITHNESS ASSOCIATION—Founders of a Bursary.
 EDINBURGH GALLOWAY ASSOCIATION—Founders of a Bursary.
 Ayrshire Club—Founders of two Bursaries.
 PEEBLES-SHIRE SOCIETY—Founders of a Bursary.
 Dr ABERCROMBIE, Cape Town—Founder of a Bursary.
 Mrs MARGT. TYNDALL BRUCE of Falkland—Founder of three Bursaries.
 TRUSTEES of FRANCIS J. SCOTT, Esq. of Mount Lodge, Portobello—Founders of two Bursaries.
 Miss HANNAH HARRISON of Lasswade—Founder of a Bursary.
 Miss MARY ETTLES of Inverness—Founder of three Bursaries, and the "Ettles Medical Scholarship."
 TRUSTEES of the Rev. JOHN SPENCE, Minister of Kinnaird—Founders of two Bursaries.
 JOHN ROBERTSON SIBBALD, M.D.—Founder of Five Bursaries.
 ARGYLLSHIRE, BUTE, and WESTERN ISLES ASSOCIATIONS—Founders of a Bursary.
 SUBSCRIBERS to MEMORIAL to ROBERT STEWART, Esq. of Ardvoirlich—Founders of a Bursary.
 THE EDINBURGH BORDER COUNTIES ASSOCIATION—Founders of two Bursaries.
 THE RIGHT HON. THOMAS, EARL OF ZETLAND—Founder of the Orkney and Zetland Bursary.
 TRUSTEES of JAMES GRIERSON, of OGSCASTLE—Founders of the Grierson Bursaries.
 TRUSTEES of DR MACKIE, of LEITH—Founders of the Mackie Bursaries.
 TRUSTEES of J. CAIRNS, Esq., W.S.—Founder of the Cairns Bursary.
 TRUSTEES of MRS JOHNSTONE of Harthope, Moffat—Founders of the Johnstone of Harthope Bursary,

TRUSTEES OF JAMES LAMBERT, Esq., Alloa—Founder of the Lambert Bursary.

ROBERT MARSHALL, Esq., Merchant, Edinburgh—Founder of the Marshall Bursary.

JOHN FOTHRINGHAM, Esq. of Heathpool—Founder of the Fotheringham and Forrest Bursaries.

Right Hon. LAWRENCE, EARL OF ZETLAND—Founder of the Zetland Bursaries.

ANDREW THOMSON, M.D.—Founder of Eight Bursaries in Medicine.

EDINBURGH EAST LOTHIAN ASSOCIATION—Founders of a Bursary in Arts.

EDINBURGH UNIVERSITY ENDOWMENT ASSOCIATION—Founders of Five Bursaries in Arts.

Mrs ISABELLA WEBSTER—Founder of the Webster Bursaries in Divinity.

(B.)—*Founders of Scholarships or Fellowships in the present Century.*

THE PIT CLUB—Founders of two Scholarships, one in Arts and one in Divinity.

JAMES MACKENZIE, Esq., W.S.—Founder of the Mackenzie Scholarship.

ALEX. HENRY RHIND, Esq. of Sibster—Founder of the Rhind Scholarships and Bursaries.

Sir DAVID BAXTER, Bart., of Kilmaron—Founder of the Baxter Scholarships in Arts and Sciences.

Sir WILLIAM FETTES, Bart.—Founder of the Fettes Exhibitions and Fellowship.

JOHN MAXTON, Esq.—Founder of a Divinity Scholarship.

Miss ELIZABETH DRUMMOND—Founder of the Drummond Scholarship.

Mrs MARGARET TYNDALL BRUCE—Founder of three Scholarships.

JAMES GUTHRIE, Esq., of London—Founder of the Guthrie Fellowship.

SUBSCRIBERS to HAMILTON MEMORIAL FUND, and ASSOCIATION for the BETTER ENDOWMENT of the UNIVERSITY—Founders of a Philosophical Fellowship.

ASSOCIATION for the BETTER ENDOWMENT of the UNIVERSITY—Founders of a Classical Fellowship.

TRUSTEES of Dr J. H. GILCHRIST—Founders of three Scholarships for Natives of India.

JOHN ROBERTSON SIBBALD, M.D.—Founder of a Medical Scholarship.

Miss MARY BAXTER, of Balgavies—Founder of a Scholarship.

SUBSCRIBERS to FALCONER MEMORIAL FUND—Founders of a Fellowship.

SUBSCRIBERS to SYME FELLOWSHIP—Founders of a Fellowship in the Medical Faculty.

SUBSCRIBERS to GOODSIR MEMORIAL—Founders of a Prize and eventually a Fellowship in the Medical Faculty.

TRUSTEES OF Mrs. CHARLES MACLAREN—Founders of the Charles Maclaren Scholarship.

SUBSCRIBERS to GLOVER MEMORIAL FUND, and ASSOCIATION for the BETTER ENDOWMENT of the UNIVERSITY—Founders of the "Glover Divinity Scholarship."

MRS M. ARNOTT, Widow of NEIL ARNOTT, M.D.—Founder of the "Neil Arnott Scholarship for Experimental Physics."

JOHN EDWARD BAXTER, Esq. of Craigtay, bequeathed the residue of his estate, out of which three Scholarships named after him have been founded by the Association for the Better Endowment of the University.

The Rev. DAVID AITKEN, D.D., formerly Minister of Minto—Founder of the Aitken Scholarship.

DAVID SKIRVING, Esq., of 13 Westbourne Park, London—Founder of the Skirving Scholarship for Moral Philosophy.

ANDREW THOMSON, M.D.—Founder of a Scholarship.

THE EDINBURGH UNIVERSITY ENDOWMENT ASSOCIATION—Founders of a Scholarship in Law.

(C.)—*Founders of New Chairs, Contributors of Endowments to existing Chairs, or of Money, &c., to the University Funds, Library, &c., within the present Century.*

General JOHN REID—Founder of the Theory of Music Chair, who also bequeathed money to the Funds of the University.

General Sir JOSEPH STRATON bequeathed money to the Funds of the University.

Sir JAMES ERSKINE, of Torry, bequeathed Pictures, Bronzes, and Marbles to the University. [Lent to the National Gallery.]

Sir WILLIAM PULTENEY—Founder of the Chair of Agriculture.

Dr WILLIAM THOMSON—Founder of the Thomsonian Lectureship in Mineralogy.

Dr THOMAS CHARLES HOPE, late Professor of Chemistry—Founder of the Hope Prize.

Sir GEORGE BALLINGALL, late Professor of Military Surgery—Presented his Library to the University.

Dr W. P. ALISON, late Professor of the Theory of Medicine—Presented his Medical Books to the University.

JOHN MUIR, D.C.L., LL.D., of Edinburgh—Founder of the Sanskrit Chair.

Mrs MARGARET TYNDALL BRUCE—Founder of Prize in Logic Class.

DANIEL ELLIS, Esq.—Founder of "The Ellis Prize" in the Faculty of Medicine.

JOHN EDWARD BAXTER, Esq., of Craigtay, bequeathed the reversion of his Estate for the purpose of founding Scholarships, etc.

Sir DAVID BAXTER, Bart., of Kilmaron—Founder of the Chair of Engineering.

- DAVID COWAN, Esq., of Auchendrane, bequeathed £1000 to the Association for Promoting the Endowment of the University.
- Dr NEIL ARNOTT gave £1000 for Promoting the Study of Experimental Physics among the Medical Students of the University.
- Sir RODERICK IMPEY MURCHISON gave £6000 for the Endowment of the Chair of Geology.
- J. O. HALLIWELL, Esq., presented his valuable Shakespearean Collection to the University.
- ROBERT COX, Esq., W.S., bequeathed £5000 for general purposes and for completing the Dome of the University buildings.
- Signor THEOPHILE BUCHER bequeathed his Music Library to the Chair of Music, and the reversion of his estate to found Scholarships in Music in the University.
- THE MERCHANT COMPANY OF EDINBURGH, and other Governors of George Watson's and Daniel Stewart's Hospitals—Founders of the Chair of Political Economy and Commercial Law.
- Mr HENRY G. and Miss FRANCES WATSON—Donors of Fund for the "Watson-Gordon Professorship of Fine Art"—the Deed of Foundation of which will be found in CALENDAR for 1873-74, p. 320.
- Sir D. BAXTER, of Kilmaron, bequeathed £20,000 for the Extension of the University buildings, and £20,000 for the Further Endowment of the Chairs in the Faculty of Arts.
- Miss BROWN, of Lanfine, presented a portion of the Minerals and Fossils which belonged to her father—to be called "The Waterhaugh Collection."
- Rev. HEW SCOTT of Wester Anstruther—Founder of the Scott and Dunbar Prize in Greek.
- JOHN WILSON, Esq. of South Bantaskine—Founder of the Robert Wilson Prize in Chemistry.
- Mrs E. WIGHTMAN—Founder of the Wightman Prize in Clinical Medicine.
- THE BELL TRUSTEES, who gave £6000 for the Endowment of the Bell Chair of the Theory, History, and Practice of Education.
- JOHN B. BAILLIE, who transferred the collection of Arabic MSS., formed by Lieut. Col. Baillie of Leys, to the University Library.
- JAMES GEORGE BEANEY, Esq.—Founder of the Beaney Prize.
- ANDREW ROBERTSON CAMERON, M.D., of Richmond, New South Wales—Founder of the Cameron Prize.
- SUBSCRIBERS to the "UNIVERSITY OF EDINBURGH BUILDINGS EXTENSION SCHEME," by whom the sum of above £98,000 has been subscribed up to May 1878. *See* Appendix, No. XI.

The University Court.

ABSTRACT OF THE PROCEEDINGS OF THE UNIVERSITY COURT FROM APRIL 1877 TO APRIL 1878.

MONDAY, 9TH JULY 1877.—There was laid before the Court an Order of Her Majesty in Council, dated 30th April 1877, authorising the retirement of Sir Robert Christison, Bart., from the Professorship of *Materia Medica*, on a retiring allowance.

The Rev. W. Cunningham, M.A. Edin. & Cantab., D. Sc. Edin., organising Secretary to the Syndicate of the University of Cambridge for the Liverpool district, was appointed Examiner in Arts in the department of Mental Philosophy for three years from 1st October next, in succession to Professor Adamson, The Owens College, Manchester, whose term of office then expired.

Arrangements made by the Faculty of Medicine, and approved by the Senatus, under which the Examinations in *Materia Medica* in April last were conducted by Professor MacLagan and Mr Alexander Henry, M.B., assistant to Sir R. Christison, were reported to the Court by the Senatus, and approved. Arrangements for the Examinations in progress on the same subject being conducted by Dr T. R. Fraser, Professor-elect, and Mr Henry, were also reported and approved.

It was resolved to appoint a successor to Dr Fraser, as Examiner in *Materia Medica*, at the meeting of the Court on the 21st January 1878.

There was laid before the Court a letter from Professor Dewar of Cambridge, resigning the office of Examiner in Chemistry in the University of Edinburgh. It was resolved to appoint a successor to Professor Dewar at the meeting of the Court on 8th October 1877, and Monday the 1st of October was fixed as the last day for receiving applications for the appointment.

THURSDAY, 19TH JULY 1877.—Professor Lister's resignation of the Chair of Clinical Surgery from the end of July current was submitted and accepted. The vacancy was ordered to be intimated to the Home Secretary and the Senatus.

MONDAY, 8TH OCTOBER 1877.—Mr W. Dittmar, Lecturer on Chemistry, Anderson's College, Glasgow, was appointed Additional

Examiner in Chemistry in succession to Professor Dewar, University of Cambridge, resigned.

A letter was received from the Under Secretary for India, intimating that the University had been placed on the list of Institutions in which Selected Candidates for the Indian Civil Service might reside during their period of special preparation,—and requesting to be informed as to proposed arrangements for their supervision while attending the University. The letter was ordered to be communicated to the Senatus.

A communication was received from the Senatus regarding the form of procedure followed in the case of the resignation of Professor Lister.

Dr J. H. Scott, Professor of Anatomy, and Mr F. W. Hutton, Professor of Natural Science, in the University of Otago, were recognised as Lecturers, attendance on whose lectures should qualify for Graduation in Medicine in the University, under Ordinance No. 8, Section VI., (4).

FRIDAY, 26TH OCTOBER 1877.—A Statement on the subject of the procedure relative to resignations of Professors was ordered to be prepared and sent to the Universities Commissioners, and the Senatus.

The appointment of the following Class Assistants by their respective Professors was approved :—Mr R. K. Galloway, *Mathematics*; and Dr W. P. Aitken and Dr R. M. Morrison, *Chemistry*.

Monday, 21st January, 1878, was fixed for the appointment of Additional Examiners in Law for the next period of three years, and Monday, 14th January, was fixed as the last day for receiving applications.

Mr David Lister Shand, W.S., and Mr John Small, University Librarian, were appointed Assistant Registrars for the revision of the Register of the General Council for 1878.

The Class Returns for 1876-77 were received from the Senatus, and remitted to a Committee.

MONDAY, 3D DECEMBER 1877.—The Right Hon. T. J. Boyd took his seat as Lord Provost of the City, and Professor A. Campbell Fraser took his seat as Assessor for the Senatus Academicus, in succession to Sir Robt. Christison, resigned.

A minute of Senatus, containing a proposed system for the supervision of Selected Candidates for the Civil Service of India, attending the University, was received. The arrangements were approved, and ordered to be communicated to the Secretary of State for India.

A Committee was appointed to examine the University Accounts for 1876-77 when received.

The preparation and issue of a Statement as to resignations of Professors was reported. The Statement was ordered to be recorded in the minutes.

The appointment of the following Class Assistants by their respective Professors was approved :—Mr Geo. B. Gardiner, *Greek* ; Mr George Strathairn, *Latin* ; Mr P. R. Scott Lang, *Natural Philosophy* ; Dr D. J. Cunningham, *Anatomy* ; and Dr J. O. Affleck, *Medical Jurisprudence*.

The continuance of the annual allowances to the Secretary of Senatus and Deans of the Faculties of Medicine and Arts was approved.

The following persons were recognised as Lecturers whose lectures should qualify for Graduation in Medicine in the University, in terms of Ordinance No. 8, Section VI. (4):—Mr Hector C. Cameron, Lecturer on Surgery, Glasgow ; Dr Angus Macdonald, Lecturer on Midwifery, Edinburgh ; and Dr F. W. Moinet, Lecturer on *Materia Medica*, Edinburgh.

MONDAY, 21ST JANUARY 1878. —The Right Hon. Lord Young took his seat as Rector's Assessor.

It was reported that no Appeals had been received in connection with the Register of the General Council for the year 1878.

Intimation was received that the Secretary of State for India in Council had approved of the system proposed by the Senatus for the supervision of Selected Candidates for the Civil Service of India who might attend the University of Edinburgh.

Dr Alexander Keiller was appointed Additional Examiner in Midwifery, in succession to Dr Angus Macdonald, whose term of office had expired. Dr T. Lauder Brunton was appointed Additional Examiner in *Materia Medica*, in succession to Professor T. R. Fraser ; Mr John Chiene was re-appointed Additional Examiner in *Anatomy* for a further term of office. Mr Thomas Keith, F.R.C.S.E., was appointed Additional Examiner in Clinical Surgery, in succession to Dr James Dunsmure, whose term of office in that department had expired. The Additional Examiners in Botany, Medical Jurisprudence, Practice of Physic, Natural History, Pathology, Surgery, Clinical Medicine, and Institutes of Medicine, were reappointed for the current year.

Mr John Kirkpatrick, LL.B., was re-appointed Additional Examiner in Law for three years ; and Mr J. M. Lees, LL.B., Sheriff-Substitute, Glasgow, was appointed an Additional Examiner in that subject for the same period, in succession to Mr W. F. Hunter, whose term of office had expired.

Leave of absence, granted by the Senatus to Professor Blackie from 1st February till the end of the Session, and consequent arrangements for his duties, were approved.

The University Accounts, 1876-7, were laid before the Court, with

two Senatus minutes relative thereto, which were remitted to the Committee on the subject appointed at last meeting.

A Committee was appointed to examine the Library Report and Accounts, 1876-7, when received. Owing to changes in the membership of the Court a new Committee was appointed to examine the Class Returns for 1876-7.

FRIDAY, 22D FEBRUARY 1878—Lord Rutherford Clark was re-appointed a Curator of Patronage for three years; and Mr A. Campbell Swinton of Kimmerghame was appointed one of the Curators of Patronage for three years, in succession to the late Sir Wm. Stirling-Maxwell, Bart.

Dr A. Wood Smith was recognised as a Lecturer on Practice of Physic in Glasgow, whose lectures should qualify for Graduation in Medicine in the University of Edinburgh, in terms of Ordinance No. 8, sec. vi. (4).

Reports by the Committees of the Court on (1) the University Accounts 1876-77; (2) the Class Returns, 1876-77; and (3) the Library Report and Accounts, 1876-77, were considered and adopted.

On consideration of a Report by the Faculty of Medicine and relative Senatus Minute, the following were added to the list of Examinations recognised as exempting *pro tanto* from the Examinations preliminary to entrance on Medical Study—(1) the London University Examination for Degrees in Science; (2) the Glasgow University Examination for Senior Candidates for honorary Certificates under its Local Examination scheme; (3) the Examination for Commissions and Appointments in the Civil Service in the United Kingdom; (4) the Otago University Preliminary Examination; (5) the Examination for the Certificate of Maturity granted by the Russian Authorities for admission to the Universities.

MONDAY, 8TH APRIL 1878—Monday, the 1st of July next, was fixed as the last day for receiving applications for the office of Additional Examiner in Mathematical Science. It was ordered that Applicants who should send in testimonials for the Office should not present more than four; and that besides the principal copy of the application, and of any testimonials which might be presented, eight copies should be forwarded to the Secretary of the Court for the use of the Members.

It was resolved to authorise the opening of a Class of Practical Materia Medica in the University, the course to consist of not less than fifty hours instruction. The Fee for the course was fixed at £3, 3s. It was also resolved to submit to the Chancellor of the University for his consent, and, if that should be given, thereafter to submit to Her Majesty in Council, for approval, an alteration of Ordinance, No. 5, sec. v. 3, with a view to constituting attendance on this Class, a way

of obtaining the instruction in the compounding and dispensing of Drugs, which is required for Graduation in Medicine in the University.

On consideration of a recent Minute of the Senatus Academicus, various previous Minutes of the Senatus and of the Court on the matter, and a recommendation of the Royal Commissioners appointed in 1876 to inquire into the Universities of Scotland ; it was resolved to increase the Class Fees in the Faculty of Divinity to £3, 3s. ; such increase to take effect in the case of all students entering the Faculty for the first time in Session 1878-9, and subsequently.

APPENDIX.



Appendix.

I.—GENERAL COUNCIL OF THE UNIVERSITY FOR 1878.

NOTE.—The Register for the year 1879 will be made up as at 30th November 1878, in terms of the Act of Parliament, and no Name will appear therein which has not been entered in the Registration Book on or before that date.

Changes of Residences, &c., should be intimated to the Registrar.

The Names, Designations, and Addresses, are given in full in the Official Register.

President.

THE CHANCELLOR OF THE UNIVERSITY.

Adair, H. W., teacher, Edin.	Aitchison, G. H., M.A., M.B., Edin.
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 town
 Campbell, D., min. C. S., Luss
 Campbell, D., M.D., Toronto
 Campbell, D., B.D., min. C.S., Fal-
 kirk
 Campbell, G., min. C. S., Glasgow

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 Monzievaïrd
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 Campbell, R. V., LL.B., adv. Edin.
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 Hartlepool
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 Campbell, W., M.A., law stud., Edin.
 Campbell, W. M.M., M.A., law stud.,
 Edin.
 Campbell, W. M., M.D., Liverpool
 Campbell, W. W., M.D., Dunse
 Camps, W., M.D., London
 Candlish, J. S., M.A., Prof. of Di-
 vinity F.C. Coll., Glasgow
 Candlish, J. M., min. C.S., N. Gal-
 loway
 Capper, J. B., M.A., stud., Edin.
 Cappie, J., M.D., Edin.
 Cardew, G. S., ret. dep. insp.-gen.
 of hospitals, Hertford
 Carfrae, G. M., M.D., London
 Carlyle, G., M.A., min. P. C., London
 Carlyle, J. A., LL.D., M.D., Dumfries
 Carlyle, W. J., M.D., Langholm
 Carmichael, A. W., min. P. C.,
 London
 Carmichael, D., M.B., Port-Glasgow
 Carmichael, H., M.A., min. F. C.,
 Peebles
 Carmichael, J., Edin. Acad.
 Carmichael, J., M.D., Edin.
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 Carphin, J. R., C.A., Edin.
 Carrington, A. F., M.D., London
 Carrington, B., M.D., Eccles
 Carruthers, G., B.D., min. C. of S.,
 Edin.
 Carruthers, J. B., M.D., Edin.
 Carruthers, W., F.L.S., London
 Carruthers, W. H., M.D., Runcorn
 Carson, A. T., M.D., Coleraine
 Carstairs, Wm. B., M.B., Peel, Isle
 of Man
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 Broughty-Ferry
 Carter, T. A., M.D., Leamington
 Cash, A. M., M.D., Edin.
 Cash, J. T., M.B., Edin.
 Casley, R. K., M.D., Ipswich
 Castle, H. T., M.D., Isle of Wight
 Cathcart, C. W., M.A., med. stud.,
 Edin.
 Caton, R., M.D., Liverpool
 Cattanaeh, P.L., adv., Edin.
 Cavaye, C. W., M.A., Lt. 24th Reg.
 Cay, J., W.S., Edin.
 Cay, R. D., W.S., Edin.
 Chadwick, C., M.D., Leeds
 Chadwick, J., M.D., Rochdale
 Challacombe, J. P., M.D., Bristol
 Chalmers, A., M.B., Bannockburn
 Chalmers, A. C., M.D., Sheffield
 Chalmers, D. P., Prestonpans
 Chalmers, J., Merchiston
 Chalmers, J., M.A., min. of F. C.,
 Stirling
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 Chancellor, J. G., of Shieldhill
 Chapman, J. M., M.B., Edin.
 Chapman, W. C., M.A., stud. div.,
 Edin.
 Charles, G., B.D., F. C. div. stud.,
 Stranraer
 Charles, G., min. F. C., Stranraer
 Charles, J., D.D., min. C. S., Kirk-
 owan
 Charles, J.B., M.A., tchr., Dundee
 Charteris, A. H., M.A., D.D.,
 Professor of Biblical Criticism,
 &c., University, Edinburgh
 Charteris, M., M.D., Glasgow
 Charteris, W., L.R.C.P. and S.,
 Halifax
 Chattopádhyaý Aghornáth, D. Sc.,
 Prof. of Chemistry, Hyderabad
 Chavasse, T. F., M.B., Birmingham
 Cheesbrough, H.A., M.D., Blackburn
 Chepmell, E. C., M.D., London
 Cheyne, W. W., M.B., Edin.
 Chiene, G. T., C.A., Edin.
 Chiene, J., M.D., Edin.
 Child, G. C., M.D., Croydon
 Chisholm, A., lic. C.S., Glen Urquhart
 Chisholm, E. M., M.B., Edin.
 Chisholm, G. G., M.A., Glasgow
 Chisholm, J. M., M.A., Edin.
 Chisholm, W., M.D., Hurworth
 Chown, J. W., M.B., Birmingham

- Christie, Chas., M.A., div. stud.,
Dunblane
Christie, J., min. C. S., Arbirlot
Christie, J. C., W.S., Newington
Christie, R. L. B. S., W.S., Edin.
Christison, David, M.D., Edin.
Christison, J., M.D., Preston
Christison, J., W.S., Edin.
Christison, Sir R., Bt., M.D., D.C.L.,
LL.D., Emeritus Prof. of Mat.
Med. Univ., Edin.
Church, H. M., M.D., B.Sc., Edin.
Churchhill, F., M.D., London
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Clapperton, T., M.A., stud., Gore-
bridge
Clark, The Hon. A. R., LL.D., Sen.
Coll. Justice, Edin.
Clark, C., M.D., Fimmere
Clark, F. W., adv., sh., Lanarkshire
Clark, G. B., M.A., law stud., Alloa
Clark, J., M.D., London
Clark, J., min. U. P. C., Abernethy
Clark, J. B., M.D., Liverpool
Clark, J. P., M.A., stud., St Andws.
Clark, T., M.D., Whitburn
Clark, W. I., B. Sc., phar. chemist,
Edin.
Clark, W. M., W.S., Toronto
Clark, W. W., M.D., Wellingborough
Clarke, A. C., M.D., Manchester
Clarke, D. R., min. F. C., Aberfeldy
Clarke, J. C., M.B., Farnworth
Clarke, J. F., M.A., med. stud.,
Aberfeldy
Clarke, J. H., M.D., Liverpool
Clarke, T., M.A., med. stud. Max-
welltown
Clarke, V. C., M.D., London
Clarke, W., M.D., Rotherham
Clarke, W. B., M.D., N. Shields
Clay, R. H., M.D., Plymouth
Clazy, G., min. R. P. C., Paisley
Clegg, W. J., M.D., Bacup
Cleghorn, A., min. F. C., Leuchars
Cleghorn, H. F. C., M.D., St Andrews
Cleland, J., M.D., Prof. of Anatomy,
&c., Galway
Clerihew, G., M.D., Kensington
Clerk, D., min. C. S., Torosay
Clifford, J. J., M.D., Hildenbro'.
Cloran, H., M.D., Dublin
Clouston, C., LL.D., min. C. S.,
Sandwick
Clouston, C. S., M.B., Hay
Clouston, T. S., M.D., Morningside
Clugston, W. A., M.D., Ballyclare
Clutterbuck, J. E., surg. major 42nd
Regiment
Coates, F. W., M.D., Malvern
Cobbold, T. S., M.D., London
Cochrane, T., min. F. C., Edin.
Cock, F., M.D., London
Cockburn, Adam, M.A., teach., Edin.
Cockburn, J. B., surg., R. Eng.,
Chatham
Cockburn, J., M.B., Ulverstone
Cockburn, T., M.A., lic. U. P. C.,
Kelso
Cockburn, Thos., M.A., teach., Edin.
Coghill, J. G. S., M.D., Ventnor
Cogswell, C., M.D., London
Cogswell, Rev. D. H., M.A., Dumfries
Cohen, D., M.D., Hamburg
Colachan, N., M.D., Galway
Coldstream, W., H.M.E.I.C.S., Edin.
Coles, W. C., M.D., E.I.U.S.C.,
London
Colley, T. D., M.D., Chester
Collinge, J., M.D., Ashton-under-
Lyne
Collins, F., staff-surg., Knaresbro'
Colman, T. J., M.D., Bristol
Colquhoun, J., min. C. S., Kilmun
Colston, J. R., teacher, Fulwell,
Sunderland.
Colthurst, R., M.D., Keynsham
Colville, J., M.A., D.Sc., Academy,
Glasgow
Colvin, J., min. C. S., Kirkmabreck
Colvin, R. F., min. C. S., Morningside
Combe, J., M.D., Edin.
Combe, M., M.D., Woolwich
Compigne, H. D. S., M.D., India
Compson, J. C., M.D., Hales Owen
Comrie, A., M.A., min. F. C., Car-
noustie
Comyn, S. E., M.D., Lambrook
Connan, D. M., M.A., Crieff
Connel, J., M.D., Peebles
Connel, R., stud., Bo'ness
Connell, J., Vicar of Hammersmith
Connor, D. M., M.A., min. U. P.
C., Biggar
Connor, P., M.D., Newry
Conyers, J. S., M.D., 8th Regiment
Cook, G., B.D., min. C.S., Longfor-
macus

- Cook, J., M.D., London
 Cook, J., W.S., Edin.
 Cooke, F., M.D., Cheltenham
 Cookson, J. F., M.D., Staining
 Cooper, J., min. U. P. C., Edin.
 Copeland, J., M.A., tchr., Geneva
 Copeland, J., M.D., Dumfries
 Corbett, J. H., M.D., Pro. of Anatomy, Queen's Coll., Cork
 Core, T. H., M.A., Prof. of Nat. Phil., Manchester
 Core, W. G., M.A., min. C. S., Carlington
 Corlett, J. B., M.D., Bootle
 Cormack, Sir J. R., K.B., M.D., Paris
 Cormack, M., M.D., Cashel
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 Cornillon, H. W., S.S.C., Edin.
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 Corrigan, Sir D., Bart., M.D., Dublin
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 Cossar, T., M.D., King's Lynn
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 Coventry, J., min. F.C., Yetholm
 Cowan, A. O., M.D., Edin.
 Cowan, A. H., min. F. Ch., Troon
 Cowan, C. J., B.D., div. stud., Kelton Manse
 Cowan, H., B.D., min. C. S., Aberd.
 Cowan, H., sh.-sub., Paisley
 Cowan, J., min. C. S., Crawfordjohn
 Cowan, J. M., M.D., Edin.
 Cowan, J., jun., W.S., Edinburgh
 Cowan, J. A., M.D., New Church-in-Rossendale
 Cowan, J. S., M.B., London
 Cowan, M. W., staff surg., R.N., Musselburgh
 Cowan, R., W.S., Edin.
 Cowan, R., min. F. C., Perth
 Cowan, R. C., C.A., Edin.
 Cowan, S., min. C. S., Kelton
 Cownie, R. J., M.A., stud., Edin.
 Cox, W. A., M.B., Leicester
 Coxe, Sir J., M.D., Kinellan
 Crabb, J., M.D., Birkenhead
 Craig, A., chemist, Edin.
 Craig, J., min. U. P. C., Newcastle-on-Tyne.
 Craig, J., M.A., tchr., Edin.
 Craig, J. T. G., W.S., Edin.
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 Craigie, J. M., adv., Clifton
 Craigie, W. M., M.A., stud., Orkney
 Cran, J., M.B., Manchester
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 Crane, J. W., M.D., Leicester
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 Crawford, A., Girvan
 Crawford, G. W., M.A., div. stud., Edin.
 Crawford, J., min. C. S., Crosshill
 Crawford, Rev. J., B.D., Ceylon
 Crawford, T., surg.-maj. London
 Crawford, T., M.A., div. stud. C. S., Perth
 Crawford, W. T., M.D., Edin.
 Crawford, A. M., min. C. S., Glasg.
 Cream, R. C., M.D., Putney
 Cree, E. H., M.D., London
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 Crichton, H. H., W.S., Edin.
 Crichton, J. A., adv., Edin.
 Crichton, J. S., M.D., Arbroath
 Crichton, J., min. C. S. Larkhall
 Crichton, R. O., M.D., Dalry
 Crichton, R. W., M.D., Devon
 Crole, G. L., M.A., student, Edin.
 Croly, H., M.D., Bengal army
 Crombie, A., M.D., Jedburgh
 Crombie, J. L., M.D., N. Berwick
 Croom, J. H., M.B., Edin.
 Cross, A., J. G., M.D., London
 Cross, R., M.D., London
 Crosthwaite, T. H. P., M.A., stud., Ladybank
 Crowe, R. B., teacher, Edin.
 Crumpe, H., M.D., London
 Crybbace, T. Tully, M.A., min. Edin.
 Cullen, J., M.A., min. C.S., Wigton
 Cullen, J., M.A., law stud., Aberdeen

- Cuming, T., M.D., Armagh
 Cumming, J., M.D., Edin.
 Cumming, K. W., M.D., asst.-surg.
 R. Artillery
 Cumming, W., M.D., Edin.
 Cumming, W. F., M.D., Kinellan
 Cummins, W. J., M.D., Cork
 Cunningham, A., min., C.S., Crailing
 Cunningham, A., late sec. N. Lights,
 Cunningham, A., min. F. C., Eccles
 Cunningham, D.D., M.B., Calcutta
 Cunningham, J., Edin.
 Cunningham, J. M., M.D., Hailsham
 Cunningham, J., min. C.S., Glendevon
 Cunningham, J. Geo., M.A., lic.
 F. C., Lochwinnoch
 Cunningham, R., M.A., lic. F.C.,
 Stranraer
 Cunningham, R. O., M.D., Prof. of
 Nat. History, Belfast
 Cunningham, W., D. Sc., min. Ch.
 of Eng., Liverpool
 Cunningham, W. B., min. F.C.,
 Prestonpans
 Cunynghame, R. J. B., M.D., Edin.
 Currie, A. S., M.D., Glasgow
 Currie, Rev. J., M.A., rector, Normal
 School, Edin.
 Currie, J., M.D., Jersey
 Currie, J., min. C., St Andrews
 Currie, J. R., min. C. S., Hutton
 Curror, A. L., M.B., Lochgelly
 Curtin, T., M.D., Monkstown
 Cousin, A., M.A., min. F. C., Edin.
 Cuthbertson, D., M.D., Stirling
 Cuthbertson, J., writer, Edin.
 Cuthil, A., tchr., Linlithgow
 Cuthill, J., M.D., Edin.

 Dale, F., M.D., Yarm
 Dalgleish, W.S., M.A., Edin.
 Dalgleish, W. M., M.D., Bedale
 Dal, A., M.A., teacher, Edin.
 Dall, E., G., min. U. P. C., Bedlington
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 U. P. C., Smethwick
 Dalton, Hy., M.B., Edin.
 Dalton, T., M.D., Llandudno
 Daly, M. W. M.D., Dublin
 Dalzell, W. R., M.A., med. stud.,
 Edin.
 Dalziel, G., farmer, Penpont
 Dalziel, J., W.S., Edin.
 Dangerfield, J., min. C. S., Lady
- Daniell, A., M.A., B.Sc., med. stud.,
 Edin.
 Daniell, H. E., M.B., Derby
 Dargie, W., M.A., min. Con. ch., Forfar
 Darling, J. S., W.S., Edin.
 Darling, J. M., M.A., min. C. S.,
 Portobello
 Darling, M. T. S., M.A., adv., Edin.
 Darling, W. B., writer, Dunfermline
 Daruty, J. A. C., M.B., Leith
 Dassauville, Wm., dep.-insp.-gen.,
 Tiverton
 Davey, C. J., M.B., Colchester
 Davidoff, Count Orloff, M.A., LL.D.,
 St. Petersburg
 Davidson, A., M.A., min. C. S.,
 Yetholm
 Davidson, A., M.A., M.D., Liverpool
 Davidson, A. P., M.A., Edin.
 Davidson, Rev. F. Y., miss. C. S.,
 Rendall
 Davidson, G. M., min. C. S., Edin.
 Davidson, G. S., min. C. S., Kinfauns
 Davidson, H., of Muirhouse
 Davidson, J., M.A., min. U. P. C.,
 Selkirk
 Davidson, J. H., M.D., Chester
 Davidson, P., M.D., Bridge of Allan
 Davidson, P., M.A., student, Edin.
 Davidson, R., min. C. S., Dumfries
 Davidson, R., B.D., lic. Ch. of
 Scot., Bervie
 Davidson, R. H., M.D., Culross
 Davidson, T., lic. U. P. C., Jedburgh
 Davies, B., M.D., Newport
 Davies, E. T., M.B., Caerwys, N.
 Wales
 Davies, F. P., M.B., Maidstone
 Davies, H. L., M.B., Holywell
 Davies, J. B., M.D., Birmingham
 Davis, J. P., M.A., min. Welsh
 Methodist Ch., Chester
 Davies, T. C., M.D., Bury
 Davies, W., M.D., Bath
 Davson, S. H., M.D., London
 Davy, R., M.D., London
 Dawson, J., Edin.
 Dawson, J., min. C. S., Mackerstoun
 Deans, J., min. U. P. C., Leith
 Deans, J. C., M.A., S.S.C., Edin.
 Deas, The Hon. Sir G., M.A., Sen.
 Coll. of Justice, Lasswade
 De Chaumont, F.S.B.F., M.D.,
 Woolston

- Deighton, C., M.D., Clapham
 De la Cour, G. F., M.D., London
 De Mierre, A., M.D., Torquay
 Denham, J., M.D., Dublin
 Dennistoun, R., Ardfin, Torquay
 Denton, T. J., M.D., Bridlington
 Deverell, H. G., M.B., Edin.
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 Dew, E., M.D., London
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 Dewar, D., min. F. C., Bellie
 Dewar, D., min. C. S., Appin
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 Dewar, J., M.D., Kirkcaldy
 Dewar, J. Alex., M.D., Arbroath
 Dewar, J., B.D., min. C. S., Lochgilp-
 head
 Dewar, M., M.B., Leith
 Dewar, Peter, M.A., stud., Crieff
 De Wolfe, G. H. H., M.B., Chepstow
 Dey, W. D., B.D., min. C. C., New-
 castle-on-Tyne
 Dick, A. H., D. Sc., tchr., Partick
 Dick, J., M.D., Edin.
 Dick, T. G., tchr., Glasgow
 Dick, W., M.D., Rochester
 Dickson, A., M.D., Prof. of Botany,
 University, Glasgow
 Dickson, A., M.D., Edin.
 Dickson, D. S., W.S., Edin.
 Dickson, G., advo., sh.-sub., Dunse
 Dickson, H., M.B., Birmingham
 Dickson, Geo. Wm., M.A., min.
 F. C., Edin.
 Dickson, H. G., W.S., Edin.
 Dickson, J. D., advo., Edin.
 Dickson, J., W.S., Perth
 Dickson, J. B., LL.D., min., C. E.,
 Leicester
 Dickson, J. M., LL.B., W.S., Edin.
 Dickson, J. E., M.B., Jersey
 Dickson, S., W.S., Edin.
 Dickson, T., Curator Hist. Dep.,
 Gen. Reg. House, Edin.
 Dickson, T. G., C.A., Edin.
 Dickson, Rev. T. M., M.A., Clough-
 ton
 Dickson, W., M.D., London
 Dickson, W. G., M.D., Edin.
 Dickson, W., acct., Edin.
 Dickson, W., M.A., late min. C. S.,
 Partick
 Dickson, W., chemist, Edin.
 Dickson, W. J., M.D., Falkland
 Dickson, W. T., M.A., W.S., Edin.
 Dill, R., M.D., Brighton
 Dingwall, A., advo., London
 Dixon, G., M.D., Thames-Ditton
 Dixon, J., M.B., London
 Dixon, W., M.B., London
 Dixon, W. H., M.D., Sunderland
 Dobie, J., min., U. P. C., Glasgow
 Dobie, W., Lockerbie
 Dobbie, D., min. F. C., Mackerston
 Dobbie, R., M.D., Ayr
 Dobson, H., M.B., Ilkley
 Dodds, A., min., U. P. C., Avon-
 bridge
 Dodds, J., min. F. C., Dunbar
 Dodds, T. B., min., F. C., Lochee
 Dodds, W. J., D.Sc., Huddersfield
 Dodds, W. N., lic. C. S., Dumfries
 Dodgson, H., M.D., Cocker mouth
 Dods, M., M.A., D.D., min. F. C.,
 Glasgow
 Dods, T., min. U. P. C., Darlington
 Domenichetti, R., staff surg.-major,
 London
 Don, W. G., M.D., Royal Engineers
 Donaldson, J., M.A., min. C. S.,
 Kirkconnel
 Donaldson, J., min. F. C., Edin.
 Donaldson, J., M.D., Hamilton
 Donaldson, R., M.A., teacher, Edin.
 Donaldson, W., M.A., tchr., Edin.
 Donkin, A. S., M.D., London
 Doran, J., staff asst.-surg., Chatham
 Dougall, J., min. C. S., Stoneykirk
 Dougall, J., min., Sydney, N. S. W.
 Douglas, A., B.D., min. C. S.,
 Arbroath
 Douglas, A. H., M.D., Edin.
 Douglas, C., M.D., Kelso
 Douglas, C., W.S., Edin.
 Douglas, D., min. U. P. C., Ken-
 noway
 Douglas, D., W.S., Edin.
 Douglas, E. C., M.B., Edin.
 Douglas, F., M.D., Kelso
 Douglas, F. B., advo., Edin.
 Douglas, G., min. U. P. C., Newcastle-
 on-Tyne
 Douglas, H., M.D., Dunfermline
 Douglas, J., banker, Kelso
 Douglas, J., teacher, Edin.
 Douglas, J., min. Congl. C., Glasgow
 Douglas, J., M.A., stud., Edin.
 Douglas, J. B., W.S., Edin.

- Douglas, J. G. D., M.D., Bourne-
mouth
Douglas, P., preacher, C. S., Edin.
Douglas, R., M.D., Brechin
Douglas, R. D., pro.-fiscal, Glasgow
Douglas, W., M.D., Dumfries
Doull, J., min. F. C., Fetlar
Dow, D. B., M.A., teacher, Helens-
burgh
Dow, J. A., min. C. S., Strathmiglo
Dowell, E., M.D., Dublin
Downes, H., dep. inspec.-gen. of
hosps., Tiverton
Downie, K. M., M.D.
Drew, S., M.D., D.Sc., Sheffield
Drinkwater, H., M.B., Sunderland
Drummond, A., M.B., Birmingham
Drummond, D., min. C. S., Hound-
wood
Drummond, E., M.D., Oldham
Drummond, J., min. F. C., Forgan-
denny
Drummond, T., B.Sc., stud. of med.,
Clackmannan
Drury, W. V., M.D., London, W.
Drysdale, A. H., M.A., min. U.P.
Church, Rochdale
Drysdale, A., M.B., Dunfermline
Drysdale, G., M.D., London
Drysdale, J., M.B., Uphall
Drysdale, J. J., M.D., Liverpool
Ducat, A. D., M.D., London
Duckworth, D., M.D., London
Dudgeon, J., W.S., West Heathley
Dudgeon, R. E., M.D., London
Duff, A., mrcht., London
Duff, A. G., M.D., New Zealand
Duff, G., M.D., Elgin
Duffin, A. B., M.D., London
Duke, A. A., M.D., Upper Norwood
Dumbreck, A., M.B., Linlithgow
Dunbar, A., M.D., Liverpool
Dunbar, H., M.D., Garelochhead
Dunbar, J. W., M.A., min. U. P.
Church, Wolverhampton
Dunbar, Sir W., Bart., London
Duncan, A., M.D., Cupar
Duncan, A. J., M.D., Dundee
Duncan, D., M.A., Prof. of Mor.
Phil., &c., Madras
Duncan, G. A., M.A., tchr., Edin.
Duncan, H., min. C. S., Crichton
Duncan, J., M.A., M.D., Edin.
Duncan, J. M., adv., Edin.
Duncan, J. R., min. C. S., Torthor-
wald
Duncan, R., min. C. S., Paisley
Duncan, R. D., clergyman, C. of E.
Wavertree
Duncan, W., min. U. P. C., Glasgow
Duncan, W., Extractor Ct. of Sess.,
Edin.
Duncan, W., prechr., Musselburgh
Duncan, W. R., sen. curate, St.
Peter's, L'pool.
Duncanson, J. J. K., M.D., Edin.
Duncanson, P. C., min. U. P. C.,
Auchingranton
Dundas, W. P., adv., Edin.
Dunlop, A., M.D., St Heliers
Dunlop, A. V., M.D., Edin.
Dunlop, J., min. U. P. C., Kil-
maronock
Dunlop, J. M., min. U. P. C., Pollock-
shaws
Dunlop, J., Duddingston
Dunlop, J., min. C. S., Buncle
Dunlop, T., min. U. P. C., Edin.
Dunlop, W., M.A., teacher, Porto-
bello
Dunn, G., M.D., Doncaster
Dunn, W., presby. min., Sunder-
land
Dunnett, W., M.A., min., C. of S.,
Lowick
Duns, J., D.D., Prof. of Nat. Sc.,
New Coll., Edin.
Dunsmure, J., M.D., Edin.
Dunsmure, J., jun., M.D., Edin.
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Durno, G., M.A., min. Bapt. Ch.,
Arbroath
Durrant, C. M., M.D., Ipswich
Dycer, C., M.D., Edin.
Dyer, A. K., M.D., Sutton in Ash-
field
Dykes, J. O., M.A., D.D., min. E.
P. C., London
Eadie, W., tchr., Inverness
Eadie, W., M.D., Glasgow.
Eadon, S., M.A., phys., Reading
Eager, R. T. S., M.D., Stourbridge
Eames, J. C., M.D., Stoneclough
Easton, G. F., M.D., Alnwick
Easton, W. J., writer, Glasgow
Eastwood, J. W., M.D., Darlington
Eaton, J., M.D., Edin.

Eddison, J. E., M.D., Leeds
 Edgar, A., LL.D., bar.-at-law,
 London
 Edgar, J. P., min. C. S., Dunbog
 Edgar, J. W., M.B., Settle
 Edgar, J., M.A., min., Glasgow
 Edgar, J. P., M.D., Heidelberg
 Edgar, P., min. F. C., Memus
 Edger, J. W., M.D., Kirby-Stephen
 Edington, T., M.A., preacher U. P.
 C., Ayton
 Edmonstone, L., M.D., Lerwick
 Edwards, E., M.A., Bala
 Edwards, J., M.D., Abernethy
 Edwards, L., M.A., D.D., principal
 of Bala College, N. Wales
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 University, Edin.
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 Elder, G., M.A., min. F. C., Green-
 wick
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 Rothesay
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 Edin.
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 England, R. E., M.B., Whitehaven
 England, W., M.D., Winchester
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 Erskine, A., M.D., Newry,
 Erskine, J. L., M.D., surg., Royal
 Engineers
 Erskine, R., M.D., Ayr
 Esdaile, D., D.D., min. C.S., Rescobie
 Espie, G., S.S.C., Edin.
 Evans, E. W., M.A., min. U. P. C.,
 Colwyn Bay
 Evans, J., M.A., tchr., Menai Bridge
 Evans, T., M.D., New Quay
 Evans, T., M.D., Gloucester
 Evans, T. D. F., M.B., Birmingham
 Evans, W. T., M.B., Bakewell
 Ewart, John, M.B., Watton
 Ewen, J., min. C. S., Hopekirk

Ewing, A., div. stud., N. Sunderland
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 haven
 Fairbairn, J., min. F. C., Greenlaw
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 Fairer, M. R., M.B., Kirkby Stephen
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 Edin.
 Fairweather, W., med. stud., Edin.
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 Falconer, R. W., M.D., Bath
 Farquharson, C. M., bar.-at-law,
 Dunkeld
 Farquharson, R., M.D., London
 Fasken, W., M.D., Portsmouth
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 Fawcett, F., M.D., Louth
 Fayrer, Sir J., M.D., Calcutta
 Fenn, E. L., M.D., Richmond
 Fentem, P. S., M.D., Bakewell
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 Ferens-Oliver, J., M.B., Durham
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 Fergus, Walter, M.D., Marlboro'
 Ferguson, A., M.A., teacher, Dryfes-
 dale
 Ferguson, A., M.A., Denholm
 Ferguson, C., banker, Ratho
 Ferguson, D. L., M.A., solr., Alford
 Ferguson, F. S., M.D., Bolton
 Ferguson, J., M.D., India
 Ferguson, J., min. F. C., Barr
 Ferguson, R. M., Ph.D., Edin.
 Ferguson, T., M.B., Crieff
 Ferguson, W., W.S., Edinburgh
 Fergusson, J. W., M.A., Inverness
 Fergusson, J., min. C. S., Jedburgh
 Fergusson, P. B., M.D., Bath
 Fergusson, S. R., Norwood, S.E.
 Fergusson, T., preacher, Closeburn
 Ferrie, J. D., acc., Edin.
 Ferrier, D., M.D., London
 Ferrier, T. H., W.S., Edin.
 Fettes, C. W., assist.-surg., H.M.
 Bombay Army
 Findlay, John, M.B., Kirkoswald
 Finlay, C. P., W.S., Edinburgh
 Finlay, J. F., M.A., Trinity

- Finlay, J. H., W.S., Edin.
 Finlay, R. B., M.D., bar.-at-law,
 London
 Finlay, W., M.D., Trinity
 Finlay, W. A., M.D., Trinity
 Finlayson, W. G., lic., U. P., Edin.
 Finnis, J. H. S., M.B., London
 Fish, Wm., M.A., head master, Kin-
 gussie
 Fisher, J. M., M.D., Hull
 Fisher, Peter, M.A., div. stud., Edin.
 Fitch, S., M.D., Portland, Maine
 Fitzpatrick, T., M.D., Dublin
 Fleming, A., W.S., Edin.
 Fleming, A., M.D., Edin.
 Fleming, G., M.D., London
 Fleming, J. B., M.D., Edin.
 Fleming, J. D., min. U. P. C.,
 Inverkeithing
 Fleming, J. N., M.D., Newcastle-on-
 Tyne
 Fletcher, A., M.D., Bury
 Flett, R. G., lic. U. P. C., Liverpool
 Flint, E., M.D., Canterbury
 Flint, H., M.B., Canterbury
 Flint, R., D.D., prof. of divinity,
 University, Edin.
 Foggo, D. L., min. C. S., St Monance
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 Foott, C. G., M.D., Tallow
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 Forbes, J., min. C. S., Berwick-on-
 Tweed
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 Castle
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 adv., Edin.
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 Forman, J., W.S., Edin.
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 Linton
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 Forsyth, H., W.S., Portobello
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 Forsyth, T., min. U. P., Gorebridge
 Fortune, J., M.D., Portobello
 Foss, R. W., M.D., Stockton-on-Tees
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 Fothergill, T. P., M.D., Bedale
 Foulis, J., M.D., Edin.
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 Fowler, R., M.D., London
 Fowler, T., M.A., div. stud., F. C.,
 Edin.
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 Fox, C. B., M.D., Scarborough
 Fox, E. C. P., M.B., Brislington
 Foyer, J. W., M.A., min. C. S.,
 Kinnoul
 Frame, L. R., M.D., Ossett
 Fraser, A., min. F. C., Kirkhill
 Fraser, A. Campbell, M.A., LL.D.,
 Prof. of Logic and Metaphysics,
 Dean of the Faculty of Arts, and
 Assessor of Senatus Academicus
 in University Court, Univ., Edin.
 Fraser, A. H. L., M.A., Bengal C. S.
 Fraser, C., div. stud., Edin.
 Fraser, D., M.D., London
 Fraser, D. A. C., M.D., staff-surg.,
 London
 Fraser, F. S., M.B., Dornock
 Fraser, F. W. D., M.A., med. stud.,
 Edin.
 Fraser, H. E., M.A., min. U. P. C.,
 Glasgow
 Fraser, H. M., M.D., Greenlaw
 Park, Milton Bridge
 Fraser, H. J. E., M.A., adv., Edin.
 Fraser, J., M.A., M.D., Edin.
 Fraser, J., M.A., min. Presby. Ch.,
 Birkenhead
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 Fraser, J., dep. insp.-gen. of army
 hosps., Edin.
 Fraser, John, M.B., Cupar
 Fraser, J., M.D., Kilsyth.
 Fraser, J. W. C., M.A.; law stud.,
 Edinburgh
 Fraser, R. G., min. C. S., Leith
 Fraser, R. W., min. C. S., Edin.

Fraser, T., dep. surg.-gen.
 Fraser, T., M.B., Berwick-on-Tweed
 Fraser, Thomas R., M.D., Prof. of
 Mat. Med., Univ., Edin.
 Fraser, W., M.A., min. C. S., Blair-
 gowrie
 Fraser, W. S., W.S., Edin.
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 Frew, W., M.B., Newmilns
 Frodsham, J. M., M.D., Upper
 Streatham
 Frood, B., min. S. C., Old Luce
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 Fulcher, G. F., M.B., Burbage
 Furley, W. G., M.B., Edin.
 Fyfe, G., teacher, Jedburgh

 Gailey, J. A., M.D., Leek
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 Gairdner, M. B., M.D., Crieff
 Gairdner, M. W., M.B., Edin.
 Gairdner, W. T., M.D., Glasgow
 Galbraith, G. T., M.D., Stirling
 Galbraith, J., LL.B., writer, Glasgow
 Galbraith, M., M.A., lic. U. P. C.,
 Edin.
 Galbraith, P., min. C. S., Sholing
 Galletly, W., min. U. P. C., Tili-
 coultry
 Galletly, W., M.B., Dumfries
 Gallie, A., writer, Edin.
 Galloway, Alex., B.D., min. C. S.,
 Minto
 Galloway, J. M., M.D., S. Shields
 Galloway, R. K., M.A., Edin.
 Galwey, W. J., M.D., Mallow
 Gamgee, A., M.D., Manchester
 Gardiner, J., S.S.C., Edin.
 Gardiner, J., sh.-sub., Campbelton
 Gardiner, J., adv., Campbelton
 Gardner, P., W.S., Glasgow
 Gardner, R. H., M.B., London
 Garland, O. H., M.B., Leith
 Garrington, A. M., M.D., Portsea
 Garson, J., min. F. C., Birsay
 Garson, J. G., M.B., Orkney
 Garson, W. R., S.S.C., Edin.
 Gartlan, J., M.D., Dundalk
 Garton, W., M.D., St Helens
 Gaussen, J. L., M.D., Belfast
 Geddie, G., M.D., Garmouth
 Geikie, A., Prof. of Geology and
 Mineralogy, Univ., Edin.

Gell, T. S., M.D., London
 Gellatly, A., M.B., Manchester
 Gentle, J., W.S., Edin.
 Gibb, A., M.D., Edin.
 Gibb, J., bank agent, Lesmahagow
 Gibb, P. B., M.A., teacher, Edin.
 Gibbons, R. A., M.D., Southsea
 Gibson, A., M.A., adv., Edin.
 Gibson, A., sec. Caledonian R. Co.,
 Glasgow
 Gibson, C., M.D., Stirling
 Gibson, G. A., M.B., D.Sc., Edin.
 Gibson, J., teacher, Edin.
 Gibson, J. Y., min. U. P. C., Ben
 Rhydding
 Gibson, J., W.S., Edin.
 Gibson, J. S., min. C. S., Edin.
 Gibson, J. W., M.A., min. C. S.,
 Dysart
 Gibson, R., tchr., Moffat
 Gibson, R., Epis. clerg., Turriff
 Gibson, W., M.D., Campbelton
 Gibson, W., min. C. S., Auchter-
 arder
 Gilchrist, J., M.D., Dumfries
 Giles, R., M.D., Oxford
 Gill, R., M.D., Alston
 Gillan, R., D.D., min. C. S.,
 Inchinnan
 Gillespie, J. D., M.D., Edin.
 Gillespie, J. E., min. C. S., Kirk-
 gunzean
 Gillespie, J., W.S., Edin.
 Gillespie, R. A., min. C. S., Castle-
 Douglas
 Gillies, W., M.A., teacher, Edin.
 Gillieson, A. H., B. D., min. C.S.,
 Orlig
 Gilligan, M., M.D., Edenderry
 Gillison, T., min. F. C., Fossoway
 Gilmour, A., tchr., Edin.
 Gilmour, J., bar.-at-law, London
 Gilray, T., M.A., teacher, Edin.
 Giraud, H. J., M.D., Isle of Wight
 Gladstone, R., prob. F.C., Biggar
 Glascott, C. E., M.D., Manchester
 Glasgow, J., min. C. S., Coylton
 Glasier, C., M.B., Lynn
 Glen, R. R., writer, Linlithgow
 Gloag, J., M.B., Edin.
 Gloag, P. J., D.D., min. C. S.,
 Galashiels
 Gloag, W. E., adv., Edin.
 Glover, J. G., M.D., London

- Glover, J., S.S.C., Edin.
 Godfray, A. C., M.B., Jersey
 Godfrey, T., M.D., Dripsey
 Going, J., M.D., Mullinahone
 Goldie, J.S., M.A., lic. C. of S., Edin.
 Goldie, J., S.S.C., Edin.
 Gooch, W. H., M.D., Ventnor
 Goodall, J., min. F. C., Aberdeen
 Goodburn, D. S., min. U. P. C., Waterbeck
 Goodeve, H. H., M.D., Cooks Folly
 Gooding, J. C., M.D., Cheltenham
 Goodwin, D., M.A., min. U. P. C., Logiealmond
 Goold, W. H., D.D., min. F.C., Edin.
 Gordon, Æ. G., lic. C. S., Edin.
 Gordon, A., M.A., Unit. min., Norwich
 Gordon, A., M.A., Edin.
 Gordon, C., min. F. C., Douglas
 Gordon, C. R., M.A., D.D., London
 Gordon, D., M.D., Edin.
 Gordon, D., min. I. C. London
 Gordon, D., M.A., div. stud., Montrose
 Gordon, D. H., W.S., Kirkcudbright
 Gordon, Right Hon. Baron, of Drumearn, LL.D., London.
 Gordon, G., LL.D., min. C. S., Birnie
 Gordon, G. M., of Charlton, St Andrews
 Gordon, H., M.B., Kirkcaldy
 Gordon, H. W. M., M.A., min. P. C., Bolton
 Gordon, J., sher.-sub., Banff
 Gordon, H. G., surgeon-gen., army, Gibraltar
 Gordon, J., M.D., Old Aberdeen
 Gordon, J., lic. F. C., Edin.
 Gordon, J., M.B., E. Linton
 Gordon, J., librarian, Royal Society
 Gordon, J. L., town-clerk, Brechin
 Gordon, J., M.A., LL.D., Edin.
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 Gordon, T., D.D., min. C. S., Newbattle
 Gordon, W., M.D., Edin.
 Gordon, W., min. C. S., Abernethy
 Gordon, W., B. D., lic. C. S., Bo'ness
 Gordon, W. I., B.D., lic. C. of S., Innerleithen
 Gordon, W. L., staff surg. R.N.
 Gorrie, J., adv., Mauritius
 Goudy, H., LL.B., adv., Edin.
 Gourlay, A. min. C.S., Lilliesleaf
 Gourlay, F., M.D., Weston-super-Mare
 Gourlay, J., M.A., F. C. div. stud., Newton-Stewart
 Gourlie, N. M., Belfast
 Gourlie, J. H., min. C. S., Bryde Kirk
 Gow, P., M.A., Auchterarder
 Gowan, C., M.D., Worcester
 Gowan, W., bar.-at-law, London
 Gowanlock, J.T., min. U. P., Stirling
 Gracie, J., of Tweed Green, Peebles
 Graeme, R., of Well Hall, Hamilton
 Graham, A. F., M.D., Liverpool
 Graham, A., min. U. P. C., Inverkeithing
 Graham, A., M.D., Edin.
 Graham, J., bar.-at-law, London
 Graham, J., M.D., London
 Graham, J. M., M.A., Edin.
 Graham, R. D., tchr., Edin.
 Graham, T., M.A., stud., Lochmaben
 Graham, V., tchr., Musselburgh
 Graham, W., tchr., Edin.
 Graham, W., min. C.S., Newhaven
 Grahame, A., par. agent, London
 Grahame, J., adv., Dunblane
 Grahame, J., B.D., min. C. S., Stevenston.
 Grange, W. D., M.B., Edin.
 Grant, Sir Alex., Bart., LL.D., Prin. and Vice-Chancellor, University, Edin.
 Grant, A., M.D., Mintlaw.
 Grant, A., M.A., teacher, Aberdeen
 Grant, A., merch., Edin.
 Grant, C. C., M.A., div. stud., Ballindalloch
 Grant, C. C., bar.-at-law, London
 Grant, D., sess.-clk., S. Leith
 Grant, D., M.A., M.B., Edin.
 Grant, D., min. C. S., Edin.
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 Grant, P., min. C. S., Dundee
 Grant, P. M., M.B., B.Sc., Edin.
 Grant, R., of Kincorth, adv., Forrester

Grant, W. T., M.B., Inverkeithing
 Gray, A., drug., Edin.
 Gray, J. A., M.B., Leith
 Gray, J., surg., R.N., Dunbar
 Gray, J. T., M.A., Edin.
 Gray, T., M.A., lic. F. C., Leith
 Gray, W., acct., Edin.
 Grayling, G., M.D., London
 Green, John, M.B., Liverpool
 Green, T., M.D., Bristol
 Greenway, A. S., M.B., Paris
 Greenway, J., M.D., Coventry
 Gregory, J., teacher, Old Machar
 Gregory, W. H., M.D., Manchester
 Greig, B. F., min. F. C., Kinfauns
 Greig, C. E., M.A., div. stud., Kinfauns
 Greig, D., M.D., Dundee
 Greig, J. B., W.S., London
 Greig, S., W.S., Edin.
 Greig, T. W., Edin.
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 Griffin, J., M.D., Banbury
 Griffin, J., M.D., Kilkee
 Griffiths, David, M.B., Pontardulius
 Grigg, W. C., M.D., Edin.
 Grindlay, W. B. C., Bk. of Brit. North America, Montreal
 Grosart, A. B., LL.D., min. U. P., Blackburn
 Grosvenor, A. O., M.D., Enfield
 Grosvenor, G. F., M.D., London
 Groves, C. H., M.D., Trinity
 Gulland, A. D., M.D., Edin.
 Gulland, C., writer, Falkland
 Gulland, W., M.D., Falkland
 Gulland, W., W.S., Edin.
 Gully, J. M., M.D., London
 Gun, J. M., LL.B., solicitor, Dumfries
 Gunn, G., M.A., lic. C. S., Edin.
 Gunn, G. G., M.A., min. C. S., Edrom
 Gunn, R. I., min. F. C., Keiss
 Gunn, R. M., M.A., M.B., Culgower
 Guppy, H. B., M.B., Falmouth
 Guthrie, C. J., M.A., adv., Edin.
 Guthrie, D. K., min. F. C., Liberton
 Guthrie, J., M.A., min. Ev. Union, London
 Guthrie, J., M.D., Brechin
 Guthrie, W., sh.-sub., Glasgow
 Guthrie, W., M.A., min. U. P. C., Dysart
 Guy, W., M.D., Norwich

Gwynne, Wm. C., M.D., Aberayron
 Haddon, J., M.A., M.D., Manchr.
 Haig, W., tchr., Haddington
 Haig, W. J., M.D., Stirling
 Haining, W., M.D., Chester
 Hair, P., M.D., Carlisle
 Haldan, B., surg., Ayr
 Haldane, D. R., M.D., Edin.
 Haldane, J., acct., Edinburgh
 Haldane, R. B., M.A., student Lincoln's Inn, Edin.
 Hall, A., M.D., Brighton
 Hall, D., adv., Edin.
 Hall, G., Prin., Ladies' Inst., Ayr
 Hall, J., M.B., Bolton
 Hall, T. W., M.D., Edin.
 Hallard, F., adv., Edin.
 Halley, A., M.D., London
 Halley, T., lic. C. S., Edin.
 Halliday, J., M.A., div. stud., Dunse
 Halliday, J., teacher, Salton
 Hamilton, A., M.D., Winderm.
 Hamilton, D. E., M.D., Bath
 Hamilton, G., M.D., Falkirk
 Hamilton, H., adv., sh.-sub., Edin.
 Hamilton, H. M., min., Temple Patrick
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 Hamilton, J. M., M.A., min. Dublin
 Hamilton, J. R., M.B., Hawick
 Hamilton, T., M.D., Kelso
 Hamilton, T., M.D., London
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 Hamilton, W., M.D., Tarbert
 Hamilton, W., teacher, Tranent
 Hamilton, W. K., min. F. C., Stonehouse
 Hamilton, W. M. S., min. C. S., St Martins
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 Hanan, W., M.D., Tallow
 Handyside, P. D., M.D., Edinburgh
 Hanna, T. C., C.A., Edin.
 Hannay, R. S., M.D., Belfast
 Hardie, G. K., staff surg.-major, Edinburgh
 Hardie, J., M.D., Manchester
 Hardie, R., M.B., Leith
 Hardie, T., M.D., Leith
 Hardman, W., M.B., Blackpool
 Hardy, S. W., M.D., Kirkcaldy
 Hardy, T., min. C. S., Foulis

- Hargitt, H., M.D., Walkley
 Harkness, J., M.A., LL.D., Dumfries
 Harland, T., M.D., Salford
 Harley, G., M.D., London
 Harper, E. E., advo., Edin.
 Harper, J. P., M.D., Windsor
 Harris, A. C. E., M.B., Birkenhead
 Harrison, J., M.D., Roscommon
 Harrison, T. L., M.D., Lerwick
 Harrower, J., min. U.P.C., Eyemouth
 Hart, D. B., M.B., Edin
 Hart, F., tchr., Edin.
 Hart, J., min. C. S., Dundee
 Hartington, the Right Hon. the
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 Harvey, A., Prof. of Mat. Med.,
 Aberdeen.
 Harvey, J., M.D., Springfield
 Harvey, J., M.D., Cork
 Harvie, J., prechr., C. S., Dalry
 Harvie, W., of Brownlee, Carluke
 Harwood, C., M.D., Shardlow
 Haslett, S. T., M.D., Laghey
 Hastie, J., LL.B., S. C., Edin.
 Hastie, W., B.D., div. stud., Wan
 lockhead
 Hastie, W., M.A., tchr., Glasgow
 Haughey, A. R., M.D., Crewe
 Haughton, E., M.D., U. Norwood
 Haward, Edwin, M.D., London
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 head
 Hay, C., Dollar
 Hay, D., min. U. P. C., Dundee
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 Keith
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 Hender, W. B., M.D., Callington
 Henderson, A. Y., rector, Academy,
 Coldstream
 Henderson, A., clerk, Edin.
 Henderson, C., S.S.C., Edin.
 Henderson, C., M.A., med. prac.
 London
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 Henderson, D. T., teacher, Adelaide
 Henderson, F. C., M.D., Edin.
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 Henderson, G., M.D., London
 Henderson, G., M.A., min. C.S.,
 Cullen
 Henderson, G. S., law stud., East
 Gordon
 Henderson, J., teacher, Morpeth
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 gow
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 Coatbridge
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 Abbey
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 Old Kilpatrick
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 Hendry, R. M., sol., Dundee
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 Hepburn, J. W., teacher, London
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 Bart.
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 Heriot, F. L. M., advo., Ladybank
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 Heslop, T. P., M.D., Birmingham
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 Hewison, J., M.A., div. stud., Edin.
 Hewitt, T. S., M.D., Winkfield
 Heycock, F. R., M.D., London
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 Higgins, W. H., M.B., Birkenhead
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 Hill, C., advo., sh.-sub., Dingwall
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 Hill, J. H. G., M.D., London

Hill, W. R., M.D., Lyminton, Hants
 Hillhouse, J., min. C. S., Elie
 Hillhouse, J. U., M.A., teacher,
 Edin.
 Hillson, A. H., M.D., assist.-surg.,
 Bengal Army
 Hinks, T. S. H., M.B., Hay
 Hinton, J. H., M.A., P.O., Bristol
 Hislop, R., B.L., Auchterarder
 Hodgkinson, A., M.B., Manchester
 Hodgson, D. F. de, M.D., Royal
 Horse Artillery
 Hodgson, W. B., LL.D., Prof. of
 Mercantile and Political Economy
 and Mercantile Law, University,
 Edin.
 Hog, T. A., of Newliston
 Hogarth, G., vic., Barton-on-Humber
 Hogg, J., M.D., London
 Hogg, R. B., M.B., Lockerbie
 Hogg, W. B. G., M.D., London
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 Hoggan, G., M.B., London
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 Holdom, W., min. C. S., Grange-
 mouth
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 Hollis, C. W., M.D., Isle of Wight
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 Holmes, H., M.D., Sheffield
 Homes, J., M.D., Buxton
 Home, D. M., M.A., LL.D., of Milne-
 graden
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 Home, G., M.B., Hull
 Home, G. H. M.B. of Argaty
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 Hood, G., M.D., Darlington
 Hood, J., of Kames, Coldstream
 Hood, R., M.D., Edinburgh
 Hooper, W. H., M.D., Cheltenham
 Hope, D. B., advo., sh.-sub., Dum-
 fries
 Hope, G. C., M.D., London
 Hope, Jas., Madras C. S., London
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 Hope, J., teacher, Tundergarth
 Hope, J., W.S., Edin.
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 Hopkiss, J. M., M.D., Carmarthen

Horden, J. O., M.B., Edin.
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 Horne, J., M.D., Scarboro'
 Horne, R. K. D., min. C. S., Cor-
 storphine
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 Horniblow, G., M.D., Leamington
 Horniblow, R., E. B., M.D., Lea-
 mington
 Horniblow, W. R., M.D., London
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 Horsburgh, B., Lochmalonie
 Houseman, J., M.D., Barras Bridge
 Houston, P. C., M.D., Kirkealdy
 Howat, H. T., min. U.P. C., Liver-
 pool
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 Howden, J. C., M.D., Montrose
 Howden, T., M.D., Haddington
 Howden, T., jun., M.D., Haddington
 Howe, A., W.S., Edin.
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 Howes, F. C. P., M.D., London
 Howie, J. M., M.B., Liverpool
 Hoyes, L., S.S.C., Edin.
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 Hughes, J. R., M.D., Denbigh
 Hughes, P. W., M.B., Oswestry
 Huie, J. A., min. P. C., Wooler
 Hume, G. H., M.D., Newcastle-on-
 tyne
 Hume, M. N. M., of Ninewells, W.S.,
 Edin.
 Hume, T., M.B., Netley
 Humphreys, G. M.D., Dublin
 Hunter, A., M.D., Edin.
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 Hunter, E. A., W.S., Edin.
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 Hunter, G. P., M.A., lic. C. S.,
 Fraserburgh
 Hunter, J. D., M.D., Portobello
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 Hunter, J. M., M.D., Devonport
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 bride
 Hunter, T., surgeon, Edin.
 Hunter, T. G., M.D., London
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 Hunter, W., teacher, Fossoway

Hunter, W. A., LL.B., solr.,
Dunse
Hunter, W. B., M.D., Jedburgh
Hunter, W. F., advo., Edin.
Hunter, W. S., M.A., stud., Edin.
Husband, H. A., M.B., London
Husband, W., M.D., Edin.
Hutchinson, R. F., M.D., Edin.
Hutchinson, R. J., M.D., Penrith
Hutchison, A. A., advo., Edin.
Hutchison, A. F., M.A., teacher,
Stirling
Hutchison, M. min. F. C., New
Cumnock
Hutchison, M., B.D., lic. Ch. of S.,
Banchory-Ternan
Hutchison, Robert, mer., Glasgow
Hutton, G. C., min. U. P. C. Paisley
Hutton, J., teacher, Edin.
Hutton, R. S., M.A., min. C. S. Cam-
nethan
Hyslop, John, teacher, 26 Battle
Hill, Hexham

I'Anson, W., M.B., Whitehaven
Ierson, H., M.A., min., London
Illingworth, C. R., M.B., Kendal
Imlach, H., M.D., Liverpool
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Inglis, A. M., M.D., Cheltenham
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Glencorse, D.C.L., LL.D., Lord
Justice-General, and Chancellor of
the University
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chiston
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Innes, A. T., M.A., advo., Edin.
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Ireland, W. F., solicitor, Edin.
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Irons, D. E., min. C.C., Ripon
Irens, J. C., M.A., S.S.C., Edin.

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Inniskilling Reg.
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Arbroath
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Irving, J., M.A., min. F. C., Inellan
Irving, W., M.D., Blackburn
Iverach, J., M.A., min. F. C., Aber-
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Jack, G., chemist, Dundee
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Girvan
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Jameson, J. H., M.A., stud., Edin.
Jameson, T. ret. surg., R.N., London
Jameson, T. R., insp.-gen. of hospis.
London
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Jamieson, R., D.D., min. Glasgow
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Jamieson, W. C. E., min. C. S.,
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Jardine, J., M.B., Edin.
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Jardine, M., min. C.S., Whithorn
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fermline
Jarvie, J. M., cong. min., Greenock
Jeanneret, H., M.D., Charlton Kings
Jefferiss, W. R. S., M.D., New Pit-
sligo
Jeffrey, G., D.D., min. U. P. C., Glasg.

- Jeffrey, J., M.A., min. U. P. C., Glasgow
 Jeffrey, T., M.A., teacher, Edin.
 Jeffrey, W., M.D., Jedburgh
 Jenkin, Fleeming, Prof. of Engineering, University, Edin.
 Jenkins, J., M.A., Presb. min., Chester
 Jenkins, W., M.A., teacher, Edin.
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 Jerdan, C., M.A., min. U. P. C., Denny-Loanhead
 Jerdan, D., bookseller, Dalkeith
 Johnson, W. A. P., M.A., min. E. P. C., Darlington
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 Johnson, J., M.D., Tunbridge Wells
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 Johnston, E., Durham
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 Johnston, G., M.D., Dublin
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 Johnston, J. A., min. U. P. C. Glasg.
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 Johnston, J. B., D.D., min. U. P. C., Glasgow
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 Johnston, J. W., M.D., Hermitage Brae
 Johnston, J., staff-surg., Montrose
 Johnston, R. B., W.S., Edin.
 Johnston, R. C., M.B., Edinburgh
 Johnston, T. P., min. C. S., Carnbee
 Johnston, W., tchr., Castle-Douglas
 Johnston, W., B.D., min. C. S., Cummertrees
 Johnston, W., M.D., Stirling
 Johnston, W., teacher, Dunfermline
 Johnston, W., min. C. S., Uphall
 Johnston, Wm., M.D., assist.-surg., 78th Highlanders
 Johnston, W., assist.-surg. R. N.
 Johnston, W. M., min. C. S., Sheuchan
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 Johnstone, G., brewer, N. Zealand
 Johnstone, J., min. C. S., Glasgow
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 Johnstone, J. M., teacher, Edin.
 Johnstone, J., M.A., teacher, Paisley
 Johnstone, J., min. New York
 Johnstone, J. M'K., B.D., Monigaff
 Johnstone, M. P., B.D., min. C. S., Hamilton
 Johnstone, M. S., min. C. S., Monigaff
 Johnstone, R., advo., Edin.
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 Johnstone, W. P., lic. C. S., Closeburn
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 Jolly, R., M.D., Birmingham
 Jones, A. E., M.D., Manchester
 Jones, D. J., M.B., Liverpool
 Jones, E. O., M.B., Manchester
 Jones, J., M.A., M.D., Ross
 Jones, L., M.D., Beaumaris
 Jones, W., M.D., Aspatria
 Jopp, K., M.D., wine mer., Aberdeen
 Joyce, T., M.D., Cranbrook
 Kay, T., min. C. S., Ronaldshay
 Keatinge, P., M.D., Callan
 Keay, J. H., M.A., div. stud., U. P. C., Blairgowrie
 Kebbell, W., M.D., Brighton
 Keddlle, S. S., M.D., Beaminster
 Keeling, J. H., M.D., Sheffield
 Keir, D., M.A., student, Perth
 Keir, P. S., of Kindrogan
 Keith, G., B.D., min. C. S., Muir-avonside
 Keith, G. S., M.D., Edin.
 Keith, J., B.D., lic. C. S., Edin.
 Keith, T., M.D., Edin.
 Kelland, J., M.B., Bath
 Kelland, P., M.A., Prof. of Mathematics, University, Edin.
 Kelly, W., min. C. S., Newlands
 Kelly, W. M., M.D., Taunton
 Kemp, G., M.A. teacher, Keith Hall
 Kemp, W. S., teacher, Glasgow
 Kendrick, J., M.D., Warrington
 Kennedy, D. M., M.D., Liverpool

- Kennedy, E., M.D., Clondalkin
 Kennedy, J., B.D., lic. F. C., Edin.
 Kennedy, J., W.S., Edin.
 Kennedy, J. G., M.D., Elie
 Kennedy, R., M.D., London
 Kennedy, W., M.A., Glasgow
 Kenny, R. Y., M.D., Kileshandra,
 Ker, C. B., M.D., Cheltenham
 Ker, J., D.D., min. U. P. C., Glas-
 gow
 Ker, W. L., M.A., min. C. S., Kil
 winning
 Kermack, H., M.A., law stud.,
 Edin.
 Kermack, W. R., W.S., Edin.
 Kerr, C. J., acct., London
 Kerr, G., min. F. C., Glasgow
 Kerr, J., M.A., Edinburgh
 Kerr, J., M.A., div. stud., Edin.
 Kerr, J., M.A., H.M. insp. of sch.,
 Aberdeen
 Kerr, T., LL.B., solicitor, Edin.
 Kerr, W. W., M.A., med. stud.,
 Edinburgh
 Ketchen, W., M.D., Middlesbrough
 Key, A., M.D., Montrose
 Kidd, G. H., M.D., Dublin
 Kidd, W., lic. C. S., Alexandria
 Kieser, W., M.A., teacher, Black-
 heath
 Kilgour, J., tchr. of lang., Edin.
 Kilgour, J., min. F. C., Cockenzie
 Kilgour, J. S., M.D., Cheltenham
 Kilner, C. S., M.B., Bury St
 Edmunds
 Kinchela, L. C., M.D., Kilkenny
 King, D., LL.D., min. U. P. C., Mer-
 chiston
 King, K., M.D., Hull
 King, N., M.D., Dublin
 King, T. R., M.D., Slough
 King, W., M.A., teacher, Edin.
 Kingdon, A. S., M.D., Combmartin
 Kingdon, C. H., M.D., Exeter
 Kingdon, W. D., M.D., Exminster
 Kinghorn, J., bar.-at-law, Temple
 Kinglake, H., M.D., Taunton
 Kingston, P. N., M.D., London
 Kinloch, A. J., M.D., Aberdeen
 Kinnaird, M., M.A., min. U. P. C.,
 Edinburgh
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 Kinnear, G. T., W. S., Edin.
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 Kinnear, S., M.A., student, Edin.
 Kinneir, R., M.D., Sherborne
 Kippen, J., M.A., min. F. C., Arrochar
 Kirk, J., mercht., Alloa
 Kirk, J. B., M.D., Bathgate
 Kirk, J., W.S., Edin.
 Kirk, R., M.B., Bathgate
 Kirk, R., M.D., Glasgow
 Kirkpatrick, J., M.D., Edinburgh
 Kirkpatrick, J., LL.B., advocate,
 Edin.
 Kirkpatrick, S., farmer, Torthorwald
 Kirkup, T., M.A., div. stud. U. P. C.,
 Edin.
 Kirkwood, G., M.B., Dunbar
 Kirkwood, Rev. G., Camp, Colchester
 Kirkwood, J., M.D., Alloa
 Kirkwood, T. D., min. C. S.,
 Bridge of Earn
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 Knight, G. F., M.A., min. F. C., East
 Wemyss
 Knott, C. G., B. Sc., student, Edin.
 Knox, A., M.D., Strangford
 Knox, J. W., Airdrie
 Knox, W., M.D., Edin.
 Kydd, D., M.D., Forfar
 Laidlaw, J., min. C. S., Wanlockhead
 Laidlaw, J., M.A., min. F. C., Aber-
 deen
 Laing, H. W., M.B., B. of Earn
 Laing, Rev. J., lib., N. Coll. Edin.
 Laing, P., M.A., teacher, Forfar
 Laing, W. R., M.A., manufacturer,
 Dundee
 Laird, A. O., min. F. C., Dundee
 Laird, J., min. F. C., Cupar
 Lake, G. A. K., M.D., Southampton
 Lamb, J., min. U. P. C., Old Kil-
 patrick
 Lamb, W., M.B., Edinburgh
 Lamond, J., S.S.C., Edin.
 L'Amy, J. R., of Dunkenny, Ayton
 Land, R. T., M.D., New Leeds
 Landale, D., min. C. S., Applegarth
 Landale, J., surg., 3d Dn. Guards
 Lane, E. W., M.D., Petersham
 Lane, W. L., M.B., Crossgates
 Lang, D., LL.B., adv., Edin.
 Lang, P. R. S., M.A., asst. to Prof.
 of Nat. Phil., Univ., Edin.
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 minster

- Langley, W., M.D., Worksop
 Langstaff, C., M.D., Southampton
 Launder, W., min. U. P. C., Port-
 Glasgow
 Laughton, W., min. F. C., Greenock
 Laurie, D. C., M.D., London
 Laurie, H., Edinburgh
 Laurie, J. W., min. F. C., Tulliallan
 Laurie, R., min. U. P. C., Dundee
 Laurie, S. S., M.A., Prof. of Educa-
 tion, University, Edin.
 Laurie, W. F., M.D., Dunstable
 Lavies, J. S., M.D., London
 Law, A. R., M.D., Richmond
 Law, E., M.B., Sheffield
 Law, J., M.D., Sheffield
 Law, W. T., M.D., London
 Lawrence, A., M.B., Brechin
 Lawrie, E., M.B., surg., Bengal Army
 Lawson, D. W., M.A., U. P. div.
 student, Kirriemuir
 Lawson, G. S., merch., London
 Lawson, H. G., London
 Lawson, J., min. U. P. C., Selkirk
 Lawson, R., M.B., Wakefield
 Lawson, W., clerk, Edin.
 Layard, H. St G., M.D., Carndonach
 Laycock, G. L., M.B., Edin.
 Leadham, W. W., M.D., London
 Leader, J., M.D., Mill Street
 Leahy, M., M.D., Glamorgan
 Leapingwell, E. J., M.B., Edinburgh
 Leask, N., M.A., tchr., St Andrews
 Leckie, T., M.D., London
 Lediard, H. A., M.D., London
 Lee, A. H., C.E., Edin.
 Lee, R., adv., Edin.
 Lee, W., D.D., Prof. of Ch. Hist.,
 Glasgow
 Leeper, W. W., M.D., Loughall
 Lees, J. M'K., LL.B., sh.-sub.,
 Glasgow
 Lees, R., surg., Edin.
 Lees, S. D., M.D., Ashton-under-Lyne
 Lees, W., M.A., Lect. on Nat. Phil.,
 Edinburgh
 Leeson, J. R., M.B., Teddington
 Le Fevre, G., M.B., Edinburgh
 Legat, A., M.D., So. Shields
 Leitch, A., D.D., min. U. P. C., Edin.
 Leitch, J., staff surg.-major, Edin.
 Leitch, J., M.B., Silloth
 Leitch, R., min. U. P. C., Newcastle-
 on-Tyne
 Leith, J. M., B.L., solicitor, Edin.
 Leith, J. W., B.D., min. C. S.,
 Prestonkirk
 Leith, W., preacher, U. P., So. Africa
 Levaack, J. G., min. C. S., Carradale
 Lewis, T. P., M.B., Norwich
 Liddon, E., M.D., Taunton
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 Lightbody, J., M.D., Whitby
 Lillies, G. W., M.D., Chudleigh
 Limont, W., min. U. P. C., Alnwick
 Lindesay, J., jun., W.S., Edin.
 Lindsay, T. M., M.A., Prof. of Div.
 and Ch. Hist., F. C. Coll., Glasgow
 Lindsay, W. L., M.D., Perth
 Linton, J., M.D., Edin.
 Liston, Rev. D., M.A., Prof. of
 Hebrew, University, Edin.
 Lithgow, S. A., M.D., B.Sc., The
 Castle, Edin.
 Littelljohn, S. G., M.B., Hanwell
 Little, D., M.D., Manchester
 Little, G., min. C. S., Kirkintilloch
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 Little, J., M.D., Dublin
 Little, J., M.D., Maryport
 Little, T., min. C. S., Stranraer
 Little, W., min. C. S., Orwell
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 Longton, E. J., M.D., Southport
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 Public Law, University, Edin.
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 Peebles
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 stud., Liverpool
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 Liverpool
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 M'Alpine, W., preacher, Ballantrae
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 Wells
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 M'Callum, E., M.A., med. stud.,
 Edinburgh
 M'Callum, G. K., of Braco
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 Aberdeen
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 Edin.
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 feldy
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 Hurray
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 Army
 M'Cracken, T., M.A., div. stud.,
 Portpatrick
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 M'Crie, G., min. F. C., Clola
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 lum, Morningside
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 ton-Stewart
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 Gourrock
 M'Culloch, R., writer, Glasgow
 MacCulloch, S. H., M.B., Edin.

- M'Culloch, W., of Ardwel, Gatehouse
 M'Cullough, D. M., M.D., Abergavenny
 Macdiarmid, A. C., M.A., min. F. C., Fordyce
 M'Diarmid, J., M.B., Newcastle-on-Tyne
 M'Diarmid, W. R., Edin.
 Macdonald, A., preacher, U. P. C., Edin.
 Macdonald, A. D., M.D., Dumfries
 Macdonald, A., LL.B., Sol. Inverness
 Macdonald, A., M.D., Edin.
 Macdonald, C. C., min. C. S., Inverbrothock
 Macdonald, D., M.A. div. student, Edinburgh
 Macdonald, D. S., M.B., London
 Macdonald, F. R., M.D., Inveraray
 Macdonald, G., min. F. C., Aberdeen
 Macdonald, H. F., min. C. S., Strachar
 Macdonald, J., min. C. S., Fort Augustus
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 Macdonald, J. H. A., adv., Edin.
 Macdonald, W., M.D., Glasgow
 Macdonald, W. R., M.D., Ayr
 Macdonald, W., M.A., clas. tchr., Edin.
 Macdonald, W. K., Town Clerk, Arbroath
 M'Donald, T. R., M.B., Portree
 M'Donnell, J., M.D., Dublin
 M'Donnell, J., M.D., London
 MacDougall, C., LL.D., Prof. of Greek, Belfast
 M'Dougall, A. R., M.B., Edin.
 M'Dougall, D., min. C.S., Dunbeath
 M'Dougall, D., M.A., min. C. S., Rothiemurehus
 M'Dougall, H., min. F. C., Glasgow
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 M'Dougall, W. L., M.A., St Mungo
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 MacEwan, D., M.B., Dundee
 M'Ewan, J., Edin.
 M'Ewen, William C., M.A., W.S., Edin.
 M'Farlan, J., min. F. C., Greenock
 Macfarlan, J. M., surg., London
 Macfarlan, W. L., min. C.S., Cupar
 Macfarlane, A., M.A., stud., B.Sc., Blagowrie
 Macfarlane, D., M.D., Drymen
 Macfarlane, D., M.D., Cheltenham
 M'Farlane, J. T., min. U. P. C., Hamilton
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 MacGregor, A., M.A., Academy, Stranraer
 Macgregor, D., M.A., min., Dundee
 M'Gregor, J., D.D., Prof. of Sys. Theol., N. Coll., Edin.
 M'Gregor, J., M.A., min. F. C., Glasgow
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 MacHardy, Rev. D., teacher, New Machar
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 Macintyre, P. M., M.A., stud., Edin.
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 Mackay, E. J. G., LL.B., adv., Prof. of Hist. University, Edin.
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 P. Church, Perth
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 Liverpool
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 Uddingston
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 Edinburgh
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 kenhead
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 Jurisprudence, Univ. Edin.
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 on-Tweed
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 London
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 Keighley
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 hurst
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 Ontario
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 M'Lean, W. C., dep. insp.-gen.,
 Southampton
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 Edinburgh
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 hosps., Yarmouth
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 stud., Girvan
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 London
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 R. Col. of Sc., Dublin
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 ward's Island
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 rose
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 smith
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 of Scots Law, Univ., Edin.
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 Macqueen, J. F., Q.C., London
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 verary

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 60th Rifles
 MacTier, W. F., M.D., Blairgowrie
 M'Vean, C. A., M.A., stud., Killin
 M'Vean, C. A., min. C.S., Kilninver
 M'Vean, D., min. F. C., Ross
 MacWatt, H., M.A., law stud., Alloa
 M'Watt, R. C., M.D., Dunse
 Madden, E. M., M.B., Birmingham
 Madden, H. R., M.D., London
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 Main, G. H., min. P. C. of England,
 Norham
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 Main, W., M.D., Birkenhead
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 Guernsey
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 Bengal Establishment
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 Lanark
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 Stenton
 Marjoribanks, T. S., B.D., min. C. S.,
 Prestonkirk
 Markham, W. O., M.D., London
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 Marlow, B. W., M.D., Gosport
 Marsden, J. L., M.D., London
 Marsden, R. S., B.Sc., stud., Shef-
 field
 Marshall, A., M.A., lic., F. C.,
 Kirkcudbright
 Marshall, D. H., M.A., Japan
 Marshall, H., M.D., Clifton
 Marshall, J., M.A., Professor of
 Classics, Yorkshire College of
 Science, Leeds
 Marshall, J., M.D., Belford
 Marshall, The Hon. J., Sen. Col.
 Justice, Edin., Assessor of Chan-
 cellor in University Court
 Marshall, J., jun., writer, Glasgow
 Marshall, J. W., M.A., H.M. In-
 spector of Schools, Aberdeen
 Marshall, P., M.A., stud., Dalkeith
 Marshall, W. H., M.A., W.S.,
 Edin.
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 Martin, A., min. C. S., Snizort
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 Leslie
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 Martin, J. H. C. E., M.D., Ports-
 mouth
 Martin, N., M.D., Dunvegan
 Martine, W., M.D., Haddington
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 Masson, D., M.A., LL.D., Prof. of
 Rhet. and Eng. Lit., Univ. Edin.
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 Matheson, A., M.A., law stud., Edin.
 Matheson, A., min. C. S., Glenshiel
 Matheson, J., M.A., City of G. Bk.,
 Glasgow
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 Mathieson, A. S., min. U. P. C.,
 Alloa
 Mathieson, J. A., mercht., Glasgow
 Mathison, J., min. U. P. C., Monk-
 wearmouth
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 Kinross
 Matthew, J., B.D., min. F. C.,
 Haddington
 Matthews, J., M.D., Tynemouth
 Maxwell, A., min. F. C., Kettle
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 Maxwell, W. H., of Munches
 May, G. P., M.D., Maldon
 May, W., M.A., div. stud. C. S.,
 Edinburgh
 Mead, E. P., M.D., Whitby
 Mearns, D. G., B.D., min. C.S., Oyne
 Medd, J., M.D., Southport
 Meggat, J., M.B., Dalbeattie
 Meikle, G., min. U. P. C., Inveraray
 Meiklejohn, J. D., Prof. of Education,
 University, St Andrews

- Meiklejohn, J. M. D., M.A., Temple,
London
- Meiklejohn, J. W. S., surg., R.N.,
London
- Meiklejohn, W., M.A., min. F. C.,
Rothesay
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Halifax
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wall
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nyte, Inchture
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of Scotland, Edinburgh
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- Middleton, W., teacher, Bothwell
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Mordington
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- Millar, J. M., chaplain to the forces,
Dover
- Millar, The Hon. J., Sen. Coll. Just.,
Edin.
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Leitholm
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on-Tweed
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ham
- Miller, J. S., min. C. S., Thurso
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- Miller, P., writer, Linlithgow
- Miller, R., tchr., Edinburgh
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- Miller, W. J., M.A., div. stud., Fort-
william
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ton
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horn
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michael
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Edinburgh
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Douglas
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ington
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- Moir, R., M.D., St. Andrews

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min. F.C., Edinburgh
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Justice-Clerk
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Edinburgh
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Manchester
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winnoch
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marnock
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Angus
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C., Edinburgh
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vensdoun
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Army, London
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Dunnet
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Law, University, Edin.
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Shanghai
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Cambridge
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Dingwall
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Balkeith
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Murchison, C., LL.D., M.D., London
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 Mure, A., M.A., advo., sh.-sub.,
 Lerwick
 Mure, J., dep. insp.-gen., Army
 Hosps., London
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 Tyne
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 St Andrews
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 Nicholson, W., M.D., Thornton
 Nicol, J., Prof. of Nat. Hist., Univ.
 Aberdeen
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 Chemistry, Bristol
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 counter"
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 cudbright
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 Russia
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 min. F. C., Linlithgow
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 O'Farrell, H., M.D., Boyle
 Ogilvie, G., Prof. of Inst. of Medicine, University, Aberdeen
 Ogilvie, Geo., M.B., B.Sc., Glasgow
 Ogilvie, J., M.B., Bolton
 Ogilvie, J. F., M.D., Norwood
 Ogilvie, Leslie, M.B., B.Sc., Glasgow
 Ogilvie, R. G., W.S., Edin.
 Ogilvie, W. P., M.A., U. P. div. stud., Falkirk
 Ogilvy, J., of Inschewan, Forfar
 Ogston, F., M.D., Aberdeen
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 Oliver, J., M.A., asst. min. C. S., Neilston
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 Omond, R., M.D., Edin.
 Omond, T. S., M.A., law stud., Edin.
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 Ord, C. K., M.D., Lewisham
 O'Reilly, C., M.D., Dublin
 O'Reilly, L., M.D., Rathvath
 Orphoot, P., M.D., Edin.
 Orphoot, T. H., sh. sub., Peebles
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 Orr, R. S., M.D., Glasgow
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 Palm, W. S., M.B., London
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 Parker, F. H., M.A., stud., Middle Temple, Staines
 Parker, J., min. U. P. C., Sunderland
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 Paterson, A., M.D., Bridge of Allan
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 Paterson, J., M.A., bar.-at-law, Lond.
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 Paterson, R. P., writer, Portobello
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 Paterson, W., min. F. C., Fraserburgh
 Paterson, W. A. O., Ayrsh.-sub.,
 Paton, Ed., merch., Pernambuco
 Paton, G., Curate, St Pauls, Ramsay
 Paton, J., M.D., Paisley
 Paton, J. A., M.A., stud., Edin.
 Paton, J., M.A., B.Sc., stud., Edin.
 Paton, J., M.A., tchr., Edin.
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 Paton, J., min. C. S., Dumfries
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 Paton, R., W.S., Selkirk
 Paton, R., min. C. S., Kirkinner
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 Patterson, A. S., D.D., min. F. C., Glw.
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 Pearce, W. H., M.D., Plymouth
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 Edinburgh
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 Perkins, H. A., M.D., Tasmania
 Peterkin, A., short-hand writer, Leith
 Peterson, P., M.A., Prof. of Oriental
 Languages, Bombay
 Pett, A., M.D., London
 Pettigrew, J. B., M.D., Prof. of
 Med., St Andrews
 Phillips, R. E., M.D., Bromley
 Philson, W., M.D., Cheltenham
 Phimister, A., M.A., min. F. C.,
 Gordon
 Phin, K. M., D.D., min. C. S., Edin.
 Picard, P. K., M.D., London
 Picken, T., teacher, Brechin
 Pillans, J. F., G. P. O., Edin.
 Pirie, George C., M.D., Dundee
 Pirret, D., min. U. P. C., Glasgow
 Pirrie, W., Prof. of Surgery, Uni-
 versity, Aberdeen
 Pitcairn, A. Y., W.S., Edin.
 Pitcairn, G. K., M.B., Manchester
 Pitcairn, W. F., W.S., Edin.
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 fermline
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 Platt, H., M.A., teacher, Edin.
 Playfair, G. R., M.D., London
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 Playfair, W. S., M.D., London
 Pollexfen, J. H., rector, St Run-
 wald's, Colchester
 Pollexfen, J. R., W.S., Edin.
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 Surat
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 Pratt, S., ret. phys., Higham Ferrers
 Preston, W., M.B., Manchester
 Priestly, W. O., M.D., London
 Primrose, J., M.A., U. P. div. stud.,
 Edinburgh
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 Glasgow
 Pringle, J., M.D., Edin.
 Pringle, J., M.D., Edinburgh
 Pringle, J., min. U. P. C., Elgin
 Pringle, J. W., M.A., min. U. P. C.,
 Jedburgh
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 upon-Tyne
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 Lockerbie
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 Raleigh, W. C., M.A., Edin.
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 Thornhill
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 Lamington
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 Reid, D., lect. on nat. sc., London
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 Hyndford
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 Stewart
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 Ritchie, C., S.S.C., Edin.
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 bolton
 Ritchie, D. G., M.A., stud. Baliol
 Coll., Oxford
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 Dervoch
 Ritchie, J., Edin.
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 Ritchie, J., min. Origl. Sec. C.,
 Shottsburn
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 Longforgan
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 Roberts, J., M.D., Manchester
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 Roberts, J. R., M.D., Bangor
 Robertson, A., advo., sheriff-sub.,
 Forfar
 Robertson, A., M.A., Bar.-at-Law,
 London
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 Aberdeen
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 Coldingham
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 York House, Whitby
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 Arbroath
 Robertson, J., B.Sc., med. stud.,
 Edinburgh
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 Inverkeithing
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 Robson, S., M.A., stud., Lockerbie
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 Roddick, J., min. Pres. C., S. Aus-
 tralia
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 Rodgers, E. B., min. C. S., Tweed-
 mouth
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 Lerwick
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 Rogerson, A., farmer, Wamphray
 Rogerson, J. J., tchr., Edin.
 Rolland, A., of Gask, W.S., Edin.
 Rolland, E., M.A., barrister, London
 Rolland, J., W.S., Edin.
 Rollo, H. J., W.S., Edin.
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 burn
 Ronaldson, T. R., M.B., Edin.
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 Roome, H., M.D., Isle of Wight
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 Nat. Inf., Mooltan
 Rose, H., M.A., min. P. Ch., Stock-
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 Ross, C., B.D., LL.D., min. C. S.,
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 Ross, D., lect. nat. hist., Edin.
 Ross, D. M., M.A., F. C. stud., Edin.
 Ross, D., M.A., H.M. Inspector of
 Schools, Glasgow
 Ross, D., min. U. P. C., Inverness

- Ross, D. M., M.B., Brighton
 Ross, E., min. C. S., Arderseir
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 Ross, J. M., M.A., med. stud., Edin.
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 Arbroath
 Ross, J. M., min. E. P. C., London
 Ross, M. M. (retired sr. chaplain C.
 S., Bombay), Kincorth House,
 Aberdeen
 Ross, W., M.A., student, Wigtown
 Rowe, F., M.D., Devonport
 Rowe, T. S., M.D., Margate
 Rowland, J., M.B., Ucheldry
 Rowland, J. W., M.B., Edin.
 Rowlands, Rev. D., M.A., principal
 Normal College, Bangor
 Roxburgh, R., M.B., Glasgow
 Roy, C. S., M.B., Arbroath
 Roy, Henry, M.D., London
 Roy, W., M.D., Perth
 Rudd, T., staff surgeon-major
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 Russell, A., min., Bradford
 Russell, A. P., M.B., Dumfries
 Russell, F., sh.-sub., Jedburgh
 Russell, H., M.B., Quebec
 Russell, J., M.A., min. C. S., Yarrow
 Russell, J. A., M.A., B.Sc., M.B.,
 Edinburgh
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 Dunfermline
 Russell, J., min. F. C., Pathhead
 Russell, J. M., M.A., min. Presb.
 Ch., C. of G. Hope
 Russell, R., M.A., Yarrow manse
 Russell, R. H., M.D., Quebec
 Russell, W., M.B., Thurso
 Russell, W., M.A., lic. C. S., Edin.
 Rutherford, F., writer, Galashiels
 Rutherford, G. D., adv., Aberdeen
 Rutherford, J., M.D., Lenzie
 Rutherford, J., B.D., min. U. P. C.,
 Aberdeen
 Rutherford, P., min. U. P., Falkirk
 Rutherford, R., M.A., min. U. P.
 C., Mountain Cross
 Rutherford, T., M.B., Kelso
 Rutherford, T., M.A., lic. C. S.,
 Portobello
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 Inst. of Med., Univ., Edin.
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 Rutherford, A., adv., Edin.
 Rutherford, E., M.D., London
 Rutherford, J., M.A., W.S., Edin.
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 Jedburgh
 Ruxton, J., M.D., Foveran
 Ryan, C. S., M.B., London
 Sabben, J. T., M.D., London
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 Salmond, W., min. U. P. C., N.
 Shields
 Salom, S. H., optician, London
 Salt, H., M.D., Bournemouth
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 Southampton
 Sandeman, R. J., min. F. C., Glas-
 gow
 Sanders, R., B.D., min. F. C., Mid-
 Calder
 Sanders, W. R., M.D., Prof. of
 General Pathology, Univer., Edin.
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 Sandie, G., min. London
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 Sang, G., S.S.C., Edin.
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 Sclanders, Alex., M.D., Nairn
 Scoone, F. M., M.A., div. student,
 Canonbie
 Scoresby-Jackson, T., M.D., Guisbro'.
 Scott, A., B.D., min. U.P.C., Kirk-
 owan
 Scott, A., B.Sc., Assist. to Jack-
 sonian Professor, Cambridge
 Scott, A. J., M.D., Tiverton
 Scott, C. G., min. Pres.C., London
 Scott, C. R., tchr., Liverpool
 Scott, D., C.A., Edin.
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 well
 Scott, D. H., M.D., Queenstown
 Scott, G., M.D., Southampton

- Scott, G., M.A., teacher, Edin.
 Scott, H., M.D., London
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 Scott, J., min. C. S., Camelon
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 Scott, J. H., M.D., Prof. of Anat., Univer., Otago
 Scott, O., min., C. S., Holm
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 Scott, T., min. U. P. C., Stonehaven
 Scott, T., B.D., lic. C. S., Claygate,
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 Scott, W., min., Partick
 Scott, W., chaplain, prison, Jedbro.
 Scott, W. B. A., M.D., London
 Scott, W. G., M.B., Newton Abbot
 Secugall, A. E., M.A., H.M. Inspector of Schools, Melrose
 Scrymgeour, W., min. F. C., Arbroath
 Seaman, W. C., M.D., London
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 Serra, C. L., M.D., Eccles
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 Shaw, David, W.S., Edin.
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 Shaw, E., M.A., stud., Wigtown
 Shaw, G. J., surg.-major, M.H. Bombay Army
 Shaw, J., M.D., Boston
 Shaw, J. E., M.B., Bristol
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 Shaw, R., M.B., Thornhill
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 Shirreff, J. H., M.D., Exeter
 Shiress, W. J., M.A., S.S.C., Edin.
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 Sieveking, E. H., M.D., London
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 Sime, J., M.A., tchr., Edin.
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 Simpson, T., tchr., St Andrews
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 Sinclair, J., M.D., staff-surg.-maj. army
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 Small, J., M.A., Librarian, University, Edin.
 Smart, A., M.A., M.D., Edin.
 Smart, H. S., assist.-surg., R. M. Art., Portsmouth
 Smart, J., S.S.C., Edin.
 Smeaton, G., D.D., Prof. of Exeg. Theol., New Col., Edin.
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 Smiles, W., M.D., London
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 Smith, A. M., tchr., Edin.
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 Smith, A., M.D., Dundee
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 Smith, C. M., B.Sc., Prof. of Phys. Sc., Madras
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 Smith, E. J., M.A., teacher, Edin.
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 Smith, J., M.B., Canonbie
 Smith, J., clk., Edin.
 Smith, J., M.D., Dumfries
 Smith, J., teacher, Dolphinton
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 Smith, J. Y., M.D., Lasswade
 Smith, O. W., M.B., London
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 Smith, T., M.A., D.D., min. F. C., Edin.
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 Smith, W. W., M.A., min. F. C., Galashiels
 Smollet, A., of Bonhill
 Smyth, C. P., Prof. of Pract. Astronomy, University, Edin.
 Smyth, J., M.D., Manor Cunningham
 Somerville, A. N., min. F. C., Glasgow
 Smyth, T. H., B.Sc., stud., Edin.
 Snadden, J., M.B., Pontefract

- Somerville, A., D.D., late secy. U. P. C., Innerleithen
 Somerville, D., M.A., assist. min. F. C., Dundee
 Somerville, G. R., min. F. C., Logie
 Somerville, R., M.D., Galashiels
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 Spalding, W., M.D., Gorebridge
 Spark, W., min. C. S., Kirkwall
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 Spence, A. I., M.D., Edin.
 Spence, J., Prof. of Surgery, University, Edin.
 Spence, J. T., C.A., Annerley
 Spence, J., acc., Edin.
 Spence, R., M.B., Burntisland
 Spence, R., M.D., Denholm
 Spence, S., LL.D., min. F. C., Kilbirnie
 Spence, T. F. H., M.B., Edin.
 Spenser, A., lic. C. S., Riccarton
 Spittal, C. G., M.A., advo., sh.-sub. Stornoway
 Sprot, T., W.S., Edin.
 Sprott, M., of Garnkirk, advo., Glasgow
 Sprott, W. P., S.S.C., Edin.
 Squair, C. G., min. U. P. C., New Deer
 Stables, W. A., Cawdor, Nairn
 Stacpoole, G. C., M.D., Epsom
 Stalker, A.M., M.A., stud., Leven
 Stalker, J., M.A., min. F. C., Kirkcaldy
 Stark, J., M.A., U. P. div. stud., Horndean
 Stark, J., min. U. P. C., Horndean
 Stark, J., M.D., Auchtermuchty
 Starke, J., of Troqueer Holm, advo., Dumfries
 Starke, J. G., M.A., advo., Jamaica
 Starkey, W., M.D., Ballyhooly
 Starr, T. H., M.D., Twickenham
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 Steele, J. P., M.D., London
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 Steele, W., M.A., min. U. P. C. S. Shields
 Steele, W., tchr., Edin.
 Steele, W. C., advo., sh.-sub., Dumbarton
 Stein, A. H., bar.-at-law, Lanark
 Stephen, A., M.D., London
 Stephen, J. I., min. C. S., Terregles
 Stephen, W. C., prob., F. C., Culross
 Stephenson, T. A., M.D., Nottingham
 Stephenson, W., M.D., Aberdeen
 Stephenson, W. H., M.D., Blackburn
 Steuart, A., W.S., Edin.
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 Steuart, C., jun., W.S., Edin.
 Steuart, J., W.S., Edin.
 Steuart, J., jun., acct., Edin.
 Steuart, R. St C., M.D., Windermere
 Steven, A., M.D., San Remo
 Steven, Rev. G. F., M.A., Army chaplain, Netley
 Stevenson, C.A., B.Sc., Edinburgh
 Stevenson, C. F., min. C. S., Barry
 Stevenson, D., C.E., Edin.
 Stevenson, D. A., B.Sc., Edin.
 Stevenson, J., M.A., min. C. S., Bedrule
 Stevenson, J., teacher, Eccles
 Stevenson, J. A., M.A., merchant, Edin.
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 Stevenson, R. J., min. C. S., Dolphinton
 Stewart, A. M., Edin.
 Stewart, A., D.D., min. C. S., Edin.
 Stewart, B., M.A., LL.D., Dir. of Kew Observatory, Richmond
 Stewart, C., advo., London
 Stewart, C., M.B., Larkhall
 Stewart, D., Reg. Exam., Edin.
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 Stewart, H. H., M.D., Dublin
 Stewart, H. A., min., F. C., Penicuik
 Stewart, J., min. F. C., St Andrew's, Orkney

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 Oxford
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 Stewart, R., min. C. S., Kilfinichan
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 Stewart, R., lic. R. C. P. and S.,
 Edin., Tomintoul
 Stewart, T. E., Edin.
 Stewart, T. G., M.D., Prof. of Prac-
 tice of Physic, University, Edin.
 Stewart, W., M.B., Kirkwall
 Stewart, W., min. U. P. C., Wark-
 worth
 Stewart, W., M.B., Dalkeith
 Stilwell, H., M.D., Uxbridge
 Stirling, D. H., M.D., Perth
 Stirling, R., D.D., min. C. S.,
 Galston
 Stirling, W., D.Sc., M.D., Prof. of
 Inst. of Med., Univ., Aberdeen
 Stirton, J., M.D., Glasgow
 Stobbs, W., M.A., min. C.S., Gordon
 Stobie, R., min. C. S., Keiss
 Stodart, A. T., M.D., Edin.
 Stodart, G. T., W.S., Edin.
 Stoddart, T. Tod, advo., Kelso
 Stokes, A., M.D., Southport
 Stokes, J., M.D., London
 Stolterfoth, H., M.D., Chester
 Stolterfoth, S., M.D., Chester
 Storie, A., min. C. S., Inch
 Storie, C. G. R., M.A., med. stud.,
 Inch
 Stormonth, J., missionary, Edin.
 Story, R. H., min. C. S., Roseneath
 Stothert, J., R. C. clergyman, Edin.
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 Ch., Blackburn
 Strachan, J., M.D., Dollar
 Strange, A., M.D., Shrewsbury
 Strange, W., M.D., Worcester
 Stratton, T., M.D., dep. insp.-gen.,
 R. N., Devonport
 Strauchan, W., M.A., chaplain R.
 Inf., Edin.
 Stronach, G., M.A., stud., Edin.
 Strong, G., M.D., Ross
 Strong, Wm. B., B.D., lic. C. of S.,
 Leith
 Struthers, J., M.D., Leith
 Struthers, J., M.D., Aberdeen
- Struthers, J., D.D., min. C. S.,
 Prestonpans
 Stuart, C., M.D., Chirnside,
 Stuart, G. B., M.B., surg., Gren-
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 Univ., St Andrews
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II.—SUBJECTS OF EXAMINATION FOR STUDENTS OF DIVINITY AND CANDIDATES FOR LICENCE.

*Adopted by the Presbytery of Edinburgh, on the 27th
March 1878.*

I.—FOR STUDENTS ENTERING THE DIVINITY HALL THE FIRST YEAR. See *Synopses of Divinity Classes*, supra p. 86.

1. The history contained in the Old Testament Scriptures from Genesis to 2 Samuel (inclusive) and the four gospels. Accurate knowledge of the narrative, as shown in ability to narrate an incident or sketch a character according to the Scripture record.

2. The Shorter Catechism.

II.—FOR STUDENTS ENTERING THE HALL THE SECOND YEAR.

1. LATIN.—Cicero “De Natura Deorum,” Books i. and ii.

2. GREEK.—The Epistle to the Galatians, to be read critically, as in Lightfoot’s Edition, with Introduction, Notes, and Dissertations.

3. HEBREW.—The Grammar, and Genesis, Chapters i.-viii.

4. EVIDENCES OF CHRISTIANITY.—External Evidences; Butler’s “Analogy,” Part ii.

5. BIBLICAL KNOWLEDGE.—The Rites and Institutions of the Mosaic Law according to Oehler’s Old Testament Theology. Examination on the Books of the Old Testament from 1 Kings to Nehemiah inclusive.

6. CHURCH HISTORY.—The Acts of the Apostles and History of the Church up to A.D. 323, as in Kurtz, I., §§ 1-63.

III. FOR STUDENTS ENTERING THE HALL THE THIRD YEAR.

1. LATIN.—Calvin’s “Institutes,” Lib. iv., cap. xvii.

2. GREEK.—Gospel according to St John, to be read critically. Special examination as to its date and authorship.

3. HEBREW.—Genesis, Chapters xl.-l.

4. BIBLICAL KNOWLEDGE.—The Prophetical Books of the Old Testament, and its chief Messianic predictions. Students to be able to give an account of the contents of any book or the bearing of any prophecy.

5. CHURCH HISTORY.—The Sixteenth Century as in Kurtz, with M’Crie’s “Life of Knox.”

6. SYSTEMATIC THEOLOGY.—Doctrines of the Divine nature and attributes, and of the Trinity. Dr Crawford’s “Mysteries of Christianity.”

N.B.—Students availing themselves of the alternative curriculum of *two full Sessions and three partial Sessions*, shall, before commencing their *Fourth Session*, be examined on the subjects in Section II., and before commencing their *Fifth Session*, on the subjects in Section III.

IV.—FOR STUDENTS APPLYING FOR LICENCE AS PROBATIONERS.

1. LATIN.—Cicero “*De Officiis*,” Book ii. ; Horace’s “*Ars Poetica*.”
2. GREEK.—Xenophon’s “*Memorabilia*,” Book ii. ; and the Epistle to the Philippians, as in Lightfoot’s Edition, with Introduction, Notes, and Dissertations.
3. HEBREW.—Psalms i. to xx.
4. LOGIC AND METAPHYSICS.—Fallacies. Induction as in Jevon’s *Elementary Lessons in Logic*. Theories of Perception as in Reid’s *Intellectual Powers*, Essay II., with Hamilton’s *Dissertations*, B to D*, inclusive.
5. MORAL PHILOSOPHY.—Ethical Theories and Natural Theology, with Stewart’s Outlines and Butler’s Three Sermons on Human Nature.
6. NATURAL PHILOSOPHY.—Statics and Dynamics as in Thomson and Tait’s *Elements of Natural Philosophy*.
7. CHURCH HISTORY.—History of the Church of Scotland from the Reformation to the Revolution, with M’Crie’s Sketches.
8. BIBLICAL CRITICISM.—The principal Manuscripts and Disputed Passages of the New Testament.
9. SYSTEMATIC THEOLOGY.—The Confession of Faith, with Dr A. A. Hodge’s Commentary.

III.—EXAMINATIONS FOR CANDIDATES FOR THE ARMY.

In the Explanatory Memorandum of the Secretary for War, to accompany the Royal Warrant (of 30th October 1871) regulating first appointments, regimental promotion, &c., in the Army, it was announced that “A certain number of Sub-Lieutenancies a year will be allotted to Candidates who have passed the University Examination specified in the Regulations. If they also pass the Examination for the degree of B.A., they will be allowed two years’ extension of the limit of age. University Candidates will be required to give at least six months’ notice of their desire to be admitted into the Army. If in any year there should be more Candidates than appointments, the requisite number will be chosen by competition between the Candidates ; after their appointment they will go through the same course as other Sub-Lieutenants.

In subsequent communications from the War Office it has been announced that “The Examination for M.A. at a Scottish University will be considered tantamount to passing that of B.A. at an English or Irish University ;” and that “the Secretary of State for War has accepted an examination at the Scottish Universities, to be defined as ‘The Examination for Candidates for the Army,’ as equivalent to the examination at the English and Irish Universities for similar candidates, and that the age of such candidates may be extended to 21 years. This examination will consist of three out of the seven examinations required for a degree at the University of Edinburgh ; but one subject out of each of the three separate Departments will have to be taken up.”

In conformity with the above regulations of the War Office—1st, those who have passed the Examination for M.A. degree will be eligible

for Commissions in the Army, and will be allowed two years' extension of the ordinary limit of age. 2nd, Those Students who have not passed the M.A. Examination may receive Certificates qualifying them for Commissions in the Army (provided they be not more than 21 years of age) on having attended one class out of each of the three Departments of the M.A. curriculum,—that is to say (a) either Greek or Latin; (b) either Logic, Moral Philosophy, or Rhetoric and English Literature; (c) either Mathematics or Natural Philosophy,—and on passing the M.A. Examination, in either April or October, in those three subjects in which the Candidate has attended classes.*

The names of intending Candidates for Certificates must be given in to the Clerk of the University at least ten days before the commencement of the M.A. Examination.

The Fee for the Examination of Candidates for the Army is two guineas.

A. C. FRASER,
Dean of the Faculty of Arts.

IV.—CIVIL SERVICE OF INDIA.

The University of Edinburgh now being one of those Institutions selected by the Secretary of State for India, in which Candidates for the Civil Service of India may pass their probation, arrangements have been made by the Senatus for the accommodation of selected candidates in the house either of one of the Professors or of some suitable person sanctioned by them. Such selected candidates will be under the supervision of the Principal and Dean's Committee, who will undertake responsibility for their conduct and enforce rules of discipline upon them.

November 1877.

The following Extracts from Regulations and Instructions respecting the Training of Selected Candidates for the Civil Service of India have been prepared, at the request of the Secretary of State, for the information of the authorities of those Universities in which such Candidates may pass their probation.

(a) EXTRACTS FROM THE REGULATIONS FOR THE OPEN COMPETITION of July 1878.

9. Selected Candidates, before proceeding to India, will be on probation for two years, during which time they will be examined periodically, with a view of testing their progress in the following subjects :—

* See Regulations for Degree of M.A.

	Marks.
1. Law	1250
2. Classical Languages of India—	
Sanskrit	500
Arabic	400
Persian	400
3. Vernacular Languages of India (each)	400
4. The History and Geography of India	350
5. Political Economy	350

In these Examinations, as in the Open Competition, the merit of the Candidates examined will be estimated by marks, and the number set opposite to each subject denotes the greatest number of marks that can be obtained in respect of it at any one Examination. The Examination will be conducted by means of printed questions and written answers, and by *viva voce* Examination, as may be deemed necessary. The last of these Examinations will be held at the close of the second year of probation, and will be called the "Final Examination," at which it will be decided whether a selected Candidate is qualified for the Civil Service of India. At this Examination Candidates will be permitted to take up any one of the following branches of Natural Science, viz. :— Botany, Geology, and Zoology, for which 350 marks will be allowed.

N.B.—Full instructions as to the course of study to be pursued will be issued to the successful Candidates as soon as possible after the result of the Open Competition is declared.

10. Any Candidate who, at any of the periodical Examinations, shall appear to have wilfully neglected his studies, or to be physically incapacitated for pursuing the prescribed course of training, will be liable to have his name removed from the list of selected Candidates.

11. The selected Candidates who, at the Final Examination, shall be found to have a competent knowledge of the subjects specified in Regulation 9, and who shall have satisfied the Civil Service Commissioners of their eligibility in respect of age, health, and character, shall be certified by the said Commissioners to be entitled to be appointed to the Civil Service of India, provided they shall comply with the regulations in force, at the time, for that Service.

The Civil Service Commissioners are authorised by the Secretary of State for India in Council to make the following announcements :—

(1.) The Probationers, having passed the necessary Examinations, will be required to report themselves to their Government in India not later than the close of December 1881.

(2.) The seniority in the Civil Service of India of the selected Candidates shall be determined according to the order in which they stand on the list resulting from the Final Examination.

(3.) An allowance of £150 a year will be given during each of the two years of their probation to all Candidates who pass their probation at some University to be approved beforehand by the Secretary of

State, provided such Candidates shall have passed the required Examinations to the satisfaction of the Civil Service Commissioners, and shall have complied with such rules as may be laid down for the guidance of selected Candidates.

(4.) Candidates rejected at the Final Examination of 1880 will in no case be allowed to present themselves for re-examination.

(b) EXTRACTS FROM INSTRUCTIONS INTENDED TO BE GIVEN TO
CANDIDATES SELECTED IN JULY 1878.

N.B.—*The Lists of Text Books, and other details, may undergo some modifications before these Instructions are actually issued to the Candidates.*

The following instruction will suffice to indicate generally the course of study to be pursued in the several subjects, but special instructions with reference to the preparation required for each of the half-yearly examinations will be given at the proper time.

I.—LANGUAGES.

Every Candidate will be required to study throughout the period of probation the chief vernacular language of his Presidency, viz. :—

Hindustani, if assigned to	.	.	Bengal.
Telugu	„	„	Madras.
Hindustani	„	„	Bombay.

The final test of qualification in each of these languages will be as nearly as possible that which was formerly imposed on Civil Servants in India before they were appointed to active duties : it will include a sound knowledge of the grammar, facility in translating from and into the language, familiarity with the written character, and some proficiency in speaking the language.*

Every Candidate will be required further to study, during the first year, one of the classical languages, viz., Sanskrit, Arabic, or Persian ; and, during the second year, *either* one of the classical languages, or the second vernacular of his Presidency, viz. :

Bengali, if assigned to	.	Bengal (Lower Provinces).
Hindi	„	Bengal (N.W. Provinces, &c.)
Tamil	„	Madras.
Marathi	„	Bombay.

In addition to the prescribed languages, Candidates may take up, at any time, any of the classical languages above-named ; and, during the second year, those who continue to study a classical language may take up also the second vernacular of their respective Presidencies. Pro-

* Extract from 13th Report of the Civil Service Commissioners, as to the necessity of acquiring a competent knowledge of the vernacular languages.—“We consider that at the ‘Final Examinations’ no amount of proficiency in other subjects should be accepted as compensating for deficiency in this essential qualification.”

iciency in these additional languages will not be accepted as compensating for deficiency in those which are prescribed; and no Candidate who in any of the prescribed subjects shall fail to show satisfactory proficiency will receive marks in respect of an additional language.

II.—LAW.

Examinations will be held under the following heads :—

1. General Jurisprudence.
2. (a) Proceedings in English Courts of Justice.
(b) Law of Evidence.
3. Laws of India.

1. Under the head of *General Jurisprudence*, Candidates will be expected to have mastered the contents of the following books, or such portions of them as may be indicated by special instructions :—

Blackstone's Commentaries, edited by R. M. Kerr, LL.D., Vol. I.

(containing the "Introduction," and the "Rights of Persons").

Austin's Jurisprudence, Vol. I.

The Institutes of Justinian, edited by Sandars.

Maine's Ancient Law.

Studies in Roman Law, with comparative views of the Laws of France, England, and Scotland. By Lord Mackenzie.

Bentham's Theory of Legislation. By Dumont.

2. (A) *Proceedings in English Courts of Justice*.—Every Candidate is required to send in, at such times as may be named in the special instructions, reports of a specified number of cases heard by himself in Courts of Justice,* in accordance with the regulations set forth below. Should, however, the set of reports sent in by a Candidate in any half-year fall below a reasonable standard, either in the choice of subject-matter or in the manner of treating it, or should the *viva voce* examination show that no sufficient knowledge of the meaning and conduct of the proceedings reported has been gained, the Candidate may be required to attend and report a further number of cases from such Courts as the Civil Service Commissioners may prescribe.

The object aimed at in this course of reporting is, that the Candidate should acquire clear ideas as to the conduct of a judicial inquiry into such facts as form the ordinary staple of business in the civil and criminal Courts of this country, and some familiarity with the principles on which the rules of evidence and procedure enforced in those Courts are founded. Candidates will, therefore, do well to avoid (for the first year at least) cases involving abstruse legal questions or difficult technicalities.

* Nine reports are required at the first Examination, seven at the second, six at the third, and four at the "Final"; the cases increasing in difficulty with each year. The Commissioners will, if applied to, endeavour to facilitate the admission of Candidates to those Courts of Justice in which any special arrangement for their accommodation can be made.

Candidates are advised, before commencing their attendance in court, to read either in Blackstone's Commentaries, or in some other elementary work, an account of the proceedings in a civil action and a criminal trial; and they are required to attend to the following points in the preparation, &c., of the reports :—

(a.) Each report should contain the title of the Court, the names of the judge and the parties, the time and place of trial, and the matter of the charge, cause of action, &c. The reports should state, fully and methodically, the substance of the evidence given (reporting it in the first person, and marking whether it was elicited in chief, cross, or re-examination)—the objections made to evidence, whether oral or documentary—the points, if any, on which a conflict of evidence has arisen—the arguments of counsel—the view taken by the judge—and the ultimate result; besides noting the course of procedure, and any other details which may appear worthy of observation.

(b.) The Candidate is to underline in the body of his report such portions of the evidence as appear to him specially cogent and material, and to state in the margin opposite, in the shortest possible note, the reason why.

(c.) In addition to the more extended report, a very short analytical statement of each case is to be given, showing, in criminal cases, the facts necessary to constitute the offence charged, and, in civil cases, the exact points in issue, with the bearing of the evidence upon them. In working out this summary, clearness and precision should be steadily kept in view.

(d.) Each Candidate is to append to his reports a declaration that they have been obtained by his personal attendance in Court, and are *bona fide* his own composition, without revision or help given by another person or derived from another report.

(e.) The reports are to be written on detached sheets of *white* foolscap paper of the ordinary size. One side only of the paper is to be used; and attention must be paid to handwriting, which should be clear and large.

(B) *Law of Evidence*.—Candidates will be expected to master the principles of the Law of Evidence as laid down in the Indian Evidence Act, and in Sir J. F. Stephen's "Digest of the Law of Evidence," Macmillan, 1876. They will also be expected to refer, for the purpose of illustrating and applying the principles of the Law of Evidence, to the reported cases mentioned in Sir J. F. Stephen's book. The reports will be found in any law library, but in case they should not be accessible, such parts of the treatises of Taylor, Best, or Goodeve as illustrate the principles of the Law of Evidence should be read with care. The questions at the first Examination will be of an elementary character, but at each succeeding examination Candidates will be expected to show a more extended knowledge of the subject and of its illustrations.

At each periodical examination a paper will be set, and *viva voce* questions will be asked, to test both the familiarity of the Candidates

with the Law of Evidence as limited above, and the practical knowledge which they have gained by following the procedure of Courts of Justice in their course of reporting.

3. The examination in the *Laws of India* will include papers and *viva voce* examination in the following branches :—

- (a.) The Code of Civil Procedure.
- (b.) The Indian Penal Code.
- (c.) The Code of Criminal Procedure, 1872.
- (d.) The Indian Law of Contracts, 1872.
- (e.) Hindu Law.
- (f.) Mahommedan Law.

III. HISTORY AND GEOGRAPHY OF INDIA.

The following books may be studied with advantage :—

Elphinstone's History of India.

Marshman's History of India.

Mill's History of British India, edited and continued by Professor Wilson.

Kaye's Afghan War.

Kaye's Life of Lord Metcalfe.

Maine's Village Communities.

Geography of India (Allen's series, or Duncan's).

Thornton's Gazetteer.

IV.—POLITICAL ECONOMY.

The works recommended are :—

M'Culloch's edition of Adam Smith's Wealth of Nations, last edition (1863).

J. S. Mill's Principles of Political Economy.

Richardo's Political Economy.

Northcote's Twenty Years of Financial Policy.

Goschen on Foreign Exchanges.

V.—NATURAL SCIENCE.

Each Candidate will be invited to name, some time before the Final Examination, the science in which he wishes to be examined, viz., Botany, Geology, or Zoology ; and at the same time to specify any portions of it to which he may have given particular attention.

Candidates must bear in mind that at the several examinations which they have to pass, the requirements of universities or colleges will not be regarded as affording any excuse for imperfect preparation.

After each examination, the half-yearly allowance will be paid to those Candidates who shall have passed to the satisfaction of the Commissioners. Deductions may be made from this allowance in the case of Candidates whose examination is unsatisfactory, in proportion to the degree of their deficiency. After each examination prizes will be awarded.

As the duties of civilians in India are such as often require the performance of journeys on horseback, Candidates will be expected to produce, before the time fixed for the Final Examinations, satisfactory evidence of their ability in this respect.

V.—REGULATIONS

OF THE UNIVERSITY COURT REGARDING APPLICATIONS FOR THE ADDITIONAL (OR NON-PROFESSORIAL) EXAMINERSHIPS IN THE UNIVERSITY.

1. Candidates must lodge their applications and any testimonials they may desire to present, with the Secretary of the Court, not later than one week before the day fixed for making appointments in each case.

2. With the applications and testimonials must be lodged eight copies for the use of the Members of the Court.

3. Applicants who send in testimonials must not send more than four for any one appointment.

4. The days for making appointments to the Additional Examinerships falling vacant in the ordinary course are :—In Arts, on the second Monday of July, for the period commencing on 1st October following ; in Divinity, Medicine, Law, and the Civil Engineering Department of Science, on the first Monday after the 20th of January in each year, for the period commencing on 1st January preceding..

5. The appointments in Divinity, Arts, Law, and the C. E. Department of Science are for three years. The appointments in Medicine are for one year, and the persons appointed may hold office by annual reappointment for a period of five years, but not longer, except under special circumstances.

6. Persons may be appointed to examine in two of the thirteen Departments of the Examinations for Graduation in Medicine, but not more, and not to more than one in the same division of the Examinations.

7. The appointments vacant in ordinary course in 1878-79 are stated in the Calendar under the proper date.

VI.—REGULATIONS

WHICH HAVE BEEN APPROVED OF BY THE UNIVERSITY COURT (1865) RELATIVE TO THE TEMPORARY SUPPLY OF PROFESSORS' CHAIRS IN THEIR ABSENCE OR DISABILITY ; AND (1876) FOR THE APPOINTMENT AND REMUNERATION OF SUBSTITUTES FOR UNIVERSITY EXAMINERS IN CASE OF ABSENCE.

1. That when any Professor shall be prevented from teaching his Class for more than three successive days, an arrangement shall be made, and intimated to the Dean of his Faculty, for his Class being taught in his absence.

2. That, in the case of those Professors who have reason to suppose that the occasional sudden demands of their profession, for a day or more at a time, may involve more than four days in all of absence from duty in the course of a Session, a similar arrangement shall be made and intimated, as in Regulation I.

3. That no arrangement for teaching a Class in absence of its Professor shall continue longer than one week, without the sanction of the Senatus, or, if there be no early enough meeting of the Senatus, without the *interim* sanction of the Principal's and Dean's Committee.

4. If any Professor shall contemplate an absence from duty exceeding one week, it shall be necessary for him to obtain the sanction of the Senatus before he shall so absent himself; and if his contemplated absence extend to four weeks or upwards, the sanction of the Senatus shall require the confirmation of the University Court.

5. No Professor shall employ any one, not a Colleague, to teach his Class for him, without obtaining the sanction of his Faculty; which shall be communicated to the Senatus at its first meeting thereafter.

6. No such deputy shall continue to teach any Class longer than one week without the sanction of the Senatus, or if there be not an early enough meeting, without the *interim* sanction of the Faculty to which the Class belongs.

7. If any Professor shall contemplate an absence of more than one week, the appointment of his deputy for teaching his Class shall require the sanction of the Senatus Academicus; and if the Professor contemplates an absence of four weeks or upwards, the sanction of the Senatus shall require the confirmation of the University Court.

1. Any University Examiner who finds himself prevented from being present at any Examination at which it is his duty to act, shall intimate this to the Dean or other Chairman of his Examining Board, who, on receiving such intimation, or otherwise becoming aware of the absence of the Examiner, shall, if possible, appoint a properly qualified Substitute to act for such Examiner. 2. In every case in which a person is appointed to act as Substitute for a University Examiner, and in which his Faculty, or Examining Committee, shall consider it necessary that the Substitute shall receive remuneration, the rate of remuneration to be paid by the Examiner (whether a Professor or Additional Examiner) to his Substitute, shall be fixed by the Faculty, or Examining Committee, and shall be based upon the amount of the Fees payable to the Additional Examiners attached to the Faculty or Examining Committee. 3. All absences of University Examiners, their duration and cause, and the relative arrangements made, shall be immediately reported for approval to the Senatus Academicus, by the Chairman of the Board to which the absent Examiner is attached; and a similar Report shall in every case of the absence of a University Examiner be made by the Senatus Academicus to the University Court; provided always that such arrangements shall receive immediate effect, when circumstances do not permit the previous approval of the Senatus Academicus to be obtained.

4. In every case in which a Professor shall apply for leave of absence from his duties generally, provision shall be made, under the existing Regulations regarding leave of absence to Professors, for the performance of his duties as Examiner, as well as for the performance of his duties as Teacher ; and provision shall be made for the remuneration of his Substitute in both capacities.

VII.--UNIVERSITY CERTIFICATES IN ARTS FOR WOMEN.

I. Candidates for the above Certificates must have studied in at least three of the Classes of the Edinburgh Ladies' Educational Association, and have passed the Local Examinations of the University of Edinburgh, or of the Universities either of Oxford or Cambridge.

II. Candidates who have previously attended any three, at least, of the Classes sanctioned by the Association, and approved by the Senatus Academicus, may, if they have passed any of the aforesaid Local Examinations, present themselves for Examination, in April or in October, in the subjects taught in the said three or more Classes, and, after passing in not less than three subjects, will receive a University Certificate in Arts.

III. The Classes at present sanctioned and approved are the following:—English Literature, Latin, Greek, Biblical Criticism ;—Logic and Mental Philosophy, Moral Philosophy, Political Economy, Theory of Education ;—Mathematics, Experimental Physics, Chemistry, Geology, Botany, Zoology, and Physiology.

IV. The University Certificates in Arts for Women will be of two grades—Pass Certificates and Honour Certificates.

V. Honour Certificates in Arts will be awarded to those who, having passed a satisfactory Examination in at least three subjects, have exhibited high proficiency, to be tested by a Special Examination for Honours, in *one* of these subjects, selected by the Candidate.

VI. Candidates for the Local Examinations of this University, which are held in June, must send their names and addresses to the "Secretary of the Local Examination Board, University, Edinburgh," on or before the 1st June in each year.

VII. Candidates for Ordinary and for Honour University Certificates in Arts must send their names and addresses, and the subjects in which they wish to be examined, to the Clerk of the University, together with proofs that they have passed the Local Examinations, and attended the necessary Classes of the Association, before the 15th March or the 1st October in each year.

VIII. The fee for the Local Examination is one guinea, and that for the University Certificate in Arts two guineas, to be paid to the University. No additional fee is required for an Honour Certificate.

ORDINARY UNIVERSITY CERTIFICATES IN ARTS.

In accordance with the Regulations for "University Certificates in Arts for Women," the following days and hours are fixed for Examinations for ORDINARY UNIVERSITY CERTIFICATES, viz., in October :—

Monday, October 21, . Latin (9-11 and 12-2); Mathematics (2.30-4.30).

Tuesday, October 22, . Mathematics (9-11); Greek (1-4).

Wednesday, October 23, . Logic and Mental Philosophy (9-12); Natural Philosophy (1-4).

Friday, October 25, . Moral Philosophy (9-12); English Literature (1-4).

And in April :—

Saturday, April 12, . Latin (9-11 and 12-2); Mathematics (3-5).

Monday, April 14, . Mathematics (9-11); Greek (1-4).

Tuesday, April 15, . Logic and Mental Philosophy (9-12); Natural Philosophy (1-4).

Wednesday, April 16, . Moral Philosophy (9-12); English Literature (1-4).

The above are the Seven Subjects of Examination necessary for the degree of Master of Arts.

The days and hours of Examination, in October and April, in the other subjects which may be taken for the Certificate in Arts for Women, will be arranged between the Candidates and the Examiners.

The heads of Examination in October 1878, and in April 1879, are as follows :—

Latin.—Livy, Book XXI.; Virgil, *Æneid*, Books VII., VIII., IX.; Horace, *Odes*, Book II. and IV. (omitting Ode 5, in Book II., and Odes 1, 2, 13 in Book IV.) A short English passage will be set for translation into Latin; questions will be asked in Roman History and Literature.

Greek.—Xenophon, *Memorabilia*, Book I.; Plato, *Apologia*; Homer, *Iliad*, Book I.; Euripides, *Medea*. A short English passage will be set for translation into Greek; questions will be asked in Greek History and Literature.

Logic and Mental Philosophy.—The Lectures of the Course attended—Jevons's *Elementary Lessons in Logic*; Professor Fraser's *Selections from Berkeley, with Introduction and Notes*; Locke's *Essay on Human Understanding*,—Introduction, B. I., II., ch. 1-12.

Moral Philosophy.—The Class Lectures—Butler's *Sermons*; *Handbook of Moral Philosophy*, by Professor Calderwood.

Political Economy.—Fawcett's *Manual*, and the Lectures of the Professor.

English Literature.—(a.) The Lectures of the Course attended. (b.) English Composition. (c.) History of the English Language. *Books*

recommended—Earle's *Philology of the English Tongue* (Introductory Historic Sketch); and Marsh's *Lectures* (Dr W. Smith's Edition). (d.) History of English Literature from 1580 to 1625. *Books recommended, in addition to readings in the chief authors of the period*:—Craik's *Manual of English Literature*; and the portions of Hallam's *Literature of Europe* that relate to English writers of the period. (e.) Special Readings:—Chaucer's *Prologue to the Canterbury Tales* (Clarendon Press Series); Milton's *Paradise Regained*; Dr Johnson's *Life of Milton* (*Lives of the Poets*); Macaulay's *England*, ch. iii.

Mathematics.—First Six Books of Euclid, and Algebra to Quadratic Equations.

Experimental Physics.—The Lectures of any one Session—Balfour Stewart's *Elementary Physics*.

Chemistry.—The Class Lectures—Bloxam's *Chemistry*.

Geology.—The Class Lectures—Jukes' *School Text-Book of Geology*.

Botany.—Description of the various parts of plants and their functions; Natural System of Classification, including classes, sub-classes, sections, and orders, as given in Balfour's *Elements of Botany*.

Zoology.—Nicholson's *Manual of Zoology*, and the Lectures of the Professor.

Physiology.—The Class Lectures—Huxley's *Physiology*.

Biblical Criticism.—Class Lectures for One Session: Apocryphal Gospels—Hammond's *Outlines of Textual Criticism applied to the New Testament* (or Scrivener's *Introduction* so far as regards MSS. and Versions).

Theory of Education.—1. Currie's *Common School Education*, p. 216 to end. 2. Herbert Spencer on *Education*—in addition to the Lectures.

HONOUR UNIVERSITY CERTIFICATES IN ARTS.

Thursday, the 17th of April 1879, and following days are appointed for Examinations for HONOUR UNIVERSITY CERTIFICATES IN ARTS FOR WOMEN, when any who have passed the Ordinary Examinations in at least three Subjects may present themselves. Candidates may select, as the Subject of an Honour Examination, any one of the three Subjects in which they have passed the Ordinary Examination. (See Regulation VI.)

The heads of Examination are as follows:—

Latin.—The Georgics of Virgil; the Epistles of Horace, including the *Ars Poetica*; Livy, from XXI. inclusive, or Tacitus, Annals, I. II. III. Latin Prose Composition. Passages set for translation into English from authors not prescribed. Questions on Roman History and Literature.

Greek.—Lucian, *Hermotimus*, *Piscator*, and *Vitarum auctio*; Platonis *Phædo*; *Iliad*, Books I.-VI.; Sophocles, *Antigone*. An English passage will be set for translation into Greek; and questions will be asked on the leading points of Greek History and Literature. Passages set for translation into English from authors not prescribed.

Logic and Metaphysics.—(a.) The subjects discussed in the Class Lectures in Logic and in Mental Philosophy. (b.) Special Study of Locke's *Essay*; the Professor's edition of Berkeley's *Philosophical Works* (Vols. I. and II.), and *Life*; Hamilton's Lectures or on *Logic or Metaphysics*; Mill's *Logic*. (c.) A knowledge of the History of Philosophy.

Moral Philosophy.—(a.) The following Dialogues of Plato :—Protagoras, Meno, Phaedo, and Philebus. (Jowett's Translation recommended.) (b.) Kant's *Metaphysic of Ethics*. (c.) Mill's *Utilitarianism*. (d.) Mackintosh's *Dissertation on the Progress of Ethical Philosophy*.

English Literature.—(a.) History and Structure of the English Language. *Books recommended* :—Morris's *Historical Outlines of English Accidence*, and Abbott's *Shakespearean Grammar*. (b.) History of English Literature from 1789 to 1832. *Books recommended, in addition to readings in the chief authors of the period* :—Crail's larger work, entitled, *History of English Literature*, and Book IV. of Taine's *History of English Literature*. (c.) Special Readings.—The Vision of William concerning Piers the Plowman (Clarendon Press Series); Spenser's *Faery Queene*, Book I. (Clarendon Press Series); Bacon's *Advancement of Learning* (Clarendon Press Edition); Shakespeare's *Midsummer Night's Dream* (Clarendon Press Series); Dr Johnson's *Lives of Dryden and Pope*. (d.) English Composition.

Mathematics.—The advanced portions of the Elements of Algebra Trigonometry, and Conic Sections; Newton's *Principia*, Sect. I.

Experimental Physics.—A general knowledge of the subject, such as may be acquired from Stewart's *Elementary Physics*, or from Lectures of the Three Year Course. In addition, Maxwell's *Heat*, and the two first chapters of Thomson and Tait's *Elements of Natural Philosophy*.

Chemistry.—Bloxam's *Chemistry*.

Geology.—Jukes' *Students' Manual of Geology*, third edition (exclusive of Chapters II. and III.); Lyell's *Principles of Geology*; Playfair's *Illustrations of the Huttonian Theory*.

Botany.—Vegetable Morphology and Physiology; (See Balfour's *Class-Book*, or his *Manual of Botany*.) Botanical Characters to be demonstrated on conspicuous specimens of the following Natural Orders :—Ranunculaceæ, Papaveraceæ, Cruciferae, Caryophyllaceæ, Malvaceæ, Leguminosæ, Rosaceæ, Onagraceæ, Umbelliferae, Dipsacaceæ, Composite, Boraginaceæ, Labiatae, Scrophulariaceæ, Primulaceæ, Euphorbiaceæ, Amentiferae, Coniferae, Orchidaceæ, Amaryllidaceæ, Liliaceæ, Palmæ, Gramineæ, Filices. The Candidate will be examined practically on the Microscopical Structure of Plants, and she will be required to describe the various parts of fresh plants put into her hands.

Physiology.

Biblical Criticism.

Theory of Education.

Candidates who desire Honours in these subjects may consult the Professors as to Books, &c.

Candidates who propose to present themselves at the Ordinary Examinations in October must intimate their names and addresses to the "Clerk of the University, University of Edinburgh," before the 15th

of October; and at either the Ordinary or the Honour Examinations in April 1876, before the 1st of March—specifying the Subjects in which they offer themselves, and also the Classes which they have attended, with the Sessions in which they have done so. The Fee should be sent to the *Clerk* when the Candidate announces her name.

UNIVERSITY CERTIFICATES IN ARTS FOR WOMEN.

The following passed in April 1878 :—

I. HONOURS.—Charlotte Carmichael—in *English*.

II. Ordinary Examinations :—*Latin*, Jane Menzies; *Greek*, D. C. E. Clark; *English*, J. Mackay, M. Stalker, H. B. Thomson; *Moral Philosophy*, M. Murray, J. F. Riach, M. Schwabie, E. Thomson, G. B. Thomson; *Education*, D. C. E. Clark, E. Stobb, J. Menzies, J. P. Middleton, Charlotte Carmichael; *Mathematics*, J. Craigie, J. Dobie, J. Mackay, J. J. M'Kean, E. E. Offord; *Experimental Physics*, E. E. Offord, A. C. Thomson, M. C. Watson.

A. CAMPBELL FRASER, *Dean of the Faculty of Arts*.

VIII.—UNIVERSITY LOCAL EXAMINATIONS.

[*These Examinations have been instituted to supply a common test of attainment both for pupils of public schools and for those privately educated.*]

REGULATIONS FOR 1879.

The Examinations will commence on Tuesday, June 17, 1879, at 9 A.M. and will be continued for three days.

The BOARD grants Local Examination Certificates of two grades,—ORDINARY and HONOUR Certificates. These Certificates are signed by the Vice-Chancellor of the University, and specify the subjects in which candidates have passed.

The subjects of examination are divided into three classes,—PRELIMINARY SUBJECTS, to be taken by all Candidates; SPECIAL SUBJECTS, from which all Candidates must make a selection, according to the grade of certificate desired; and EXTRA SUBJECTS, in which any Candidate may volunteer.

I.—PRELIMINARY SUBJECTS.

In which all Candidates must undergo Examination.

1. *English*.—Reading aloud, with proper accent and emphasis. Writing from Dictation. The elements of English Grammar and analysis. English Composition; the structure of sentences.

2. *History and Geography*.—(a) History of Scotland from 1513 to 1603. (b) The Geography of Europe. Only the principal mountains, rivers, and towns required, except in the geography of Great Britain and Ireland, of which more detailed knowledge will be expected. The Candidate will also be required to fill in an outline map of either Scotland, England, or Ireland.

*3. *Latin*.—Grammar ; with an easy passage for translation into English, and parsing.

* This subject will be optional for Female Candidates, except when Latin is taken as a Special Subject.

4. *Arithmetic, including Fractions*.

5. *Scripture History*.—The First Book of Samuel, and the Gospel according to St Matthew.

No. 5 will not be required when parents or guardians request that it be omitted.

The Preliminary Certificates of Oxford and Cambridge are accepted as qualifying for Examination.

II.—ORDINARY CERTIFICATE.

At least *two*, and not more than *four* of the following subjects are to be selected by the Candidate. The selection must be made from at least two of the Departments A, B, C.

DEPARTMENT A.

1. *Latin*.—A passage for translation into English, with grammatical and general questions. (Cæsar, *De Bello Gallico*, B. V.)

An easy passage of English, with the more uncommon Latin words supplied, for translation into Latin.

2. *Greek*.—An easy passage for translation into English, with grammatical and general questions. (Xenophon's *Memorabilia*, B. I., 1, 2.)

3. *French*.—A passage from *Petite Histoire du Peuple Français*, par Paul Lacombe, for translation into English, with questions on the accidence of French grammar.

An easy English passage for translation into French.

4. *German*.—A passage from Albert Richter's "Gudrun" (in his "Götter und Helden," Part III.), for translation into English, with questions on the accidence of German grammar.

An easy English passage for translation into German.

DEPARTMENT B.

1. *English*.—Composition ; questions in Grammar ; questions in the History of English Literature through the eighteenth century ; Milton's "Comus," and Macaulay's "Clive."

2. *History and Geography*.—(a) History of Scotland to 1513. (b.) Geography of the British Islands.

3. *Scripture History*.—Joshua, Judges, and Ruth ; the Gospels of Mark and Luke, with the Acts of the Apostles.

DEPARTMENT C.

1. *Mathematics*.—Arithmetic. Euclid, Books i., ii. The Elements of Algebra, as far as Simple Equations.

2. *Natural Philosophy*.—The properties of Matter. The Parallelogram of Forces and the Mechanical Powers.

A general knowledge of the earth's dimensions and figure ; the cause

of the seasons ; the distances, motions, and physical character of the heavenly bodies.

Such information may be gained from Balfour Stewart's *Lessons in Elementary Physics*, and Norman Lockyer's *Elementary Lessons in Astronomy*.

3. *Physical Geography*.—Geikie's *Elementary Lessons in Physical Geography*.

EXTRA SUBJECTS,

In which Candidates may volunteer for examination. The values obtained in these will be acknowledged on the certificate granted, but not added to the Candidate's aggregate marks in the competition.

A.—DEPARTMENT OF DRAWING.

Drawing in Outline from the Flat.

B.—DEPARTMENT OF MUSIC.

The Grammar of Music.

III.—HONOUR CERTIFICATE.

At least *two*, and not more than *four* of the following subjects are to be selected by the Candidate. The selection must be made from at least two of the Departments A, B, C, and D.

DEPARTMENT A.

1. *Latin*.—A paper consisting of, 1st, a passage of plain English to be translated into Latin ; 2nd, four short and plain passages, such as the Candidate might, without previous preparation in them, be expected to translate, two of these, at the choice of the Candidate, to be translated into English ; and 3d, a few grammatical questions, either arising out of the passages, or general.

2. *Greek*.—A paper including grammatical and general questions ; the translation of an easy passage ; and the translation of a few English sentences into Greek.

3. *French*.—*Ad apturam* translation and retranslation, with questions on the accidence and the syntax of French grammar, and the history of French literature.

4. *German*.—*Ad apturam* translation and retranslation, with questions on the accidence and syntax of German grammar, and the history of German literature.

DEPARTMENT B.

1. *English*.—Composition ; Higher Grammatical Questions, including Derivation of Words and Prosody ; History of English Literature in the seventeenth century ; Shakespeare's "Merchant of Venice ;" Chaucer's "Prologue to the Canterbury Tales."

2. *History and Geography*.—(a) General History of Europe from A.D. 1517 to 1648. (b) Geography of Asia.

3. *Logic*.—Jevons's *Elementary Lessons in Logic* (Macmillan and Co.)

4. *Bible Knowledge*.—Conybeare & Howson's *Life and Epistles of St Paul*, 2 vols., popular edition, Vol. I., chapters i.-xiii.

DEPARTMENT C.

1. *Mathematics*.—Arithmetic. Euclid, Books i.-iv and vi. Algebra to Quadratic Equations. Plane Trigonometry.

2. *Natural Philosophy*.—Elements of *Mechanics* and of *Experimental Physics*. (Balfour Stewart's *Lessons in Elementary Physics*; and Blaikie's *Elements of Dynamics*, or Thomson and Tait's *Elements of Natural Philosophy*.)

DEPARTMENT D.

1. *Chemistry*.—The relations to one another of Acids, Bases, Salts, and Metals—Oxidation and Reduction. The physical characters, methods of preparation and chemical characters of the following non-metallic elements and their chief compounds:—Oxygen, Hydrogen, Nitrogen, Carbon, Sulphur, Phosphorus, Chlorine, Bromine, Iodine, Silicon. The oxides and salts of the following metals:—Potassium, Sodium, Barium, Calcium, Magnesium, Iron, Zinc, Manganese, Chromium, Aluminium, Cobalt, Nickel, Copper, Mercury, Lead, Silver, Gold, Platinum, Tin, Arsenic, Antimony, Bismuth.

The following text-books are referred to as indicating the amount and kind of knowledge expected:—Roscoe's *Lessons in Elementary Chemistry*, Lessons I.-XXVI.; Williamson's *Chemistry for Students*, Chaps. i.-xxxiii.; Wilson's *Inorganic Chemistry* (Chambers's Educational Course); Brown's *Chemistry* (Chambers's Elementary Science Manuals).

2. *Zoology*.—The general principles of Zoological Classification. The characters of the Classes of the Vertebrata, founded upon Anatomical and Physiological characters. The general characters of the Vertebrate Orders. The Morphological, Anatomical, and Physiological characters of the sub-kingdoms of the Invertebrata, and the general characters of the Invertebrate Orders. Dr Stirling's *Zoology*, in *Chambers's Information for the People*, and Dr Alleyne Nicholson's *Manual of Zoology*.

3. *Botany*.—Botanical organography. Functions of leaves and flowers. Process of fertilization in flowering and in flowerless plants. Demonstration of orders Ranunculaceæ, Cruciferae, Caryophyllaceæ, Leguminosæ, Rosaceæ, Umbelliferae, Compositæ, Labiatae, Liliaceæ, and Grasses, in conspicuous specimens. General distribution of Plants in Britain. (Balfour's *Elements of Botany*.)

4. *Physiology*.—The structure and functions of the tissues of the body,—namely, epithelium, fibrous tissues, cartilage, bone, muscle, nerve fibres, and nerve cells. The structure and functions of the heart and blood vessels. The circulation of the blood. The functions of the blood corpuscles. The composition of the blood and its changes in the capillaries of the lungs, and in those of the system generally. The structure of the lungs, the mechanism by which the air is moved into and out of the lungs during ordinary respiration. The changes of the air during respiration. Food, mastication, secretion and functions of saliva, deglutition. Secretion and functions of the gastric juice, bile, pancreatic and intestinal juices. Matters absorbed from stomach and intestine by radicles of portal vein and lacteals. The glucogenic

function of the liver. The functions of the lymphatic system. The functions of skin and kidneys. The nature of reflex action. The functions of the two roots of a spinal nerve. The functions of the spinal cord, medulla oblongata, and convolutions of the cerebrum. A general knowledge of the structure and functions of the parts concerned in sight, hearing, smell, taste, and touch. Works recommended :—Huxley's *Lessons in Physiology*; Newton's *Animal Physiology*.

5- *Geology*—Operations of the chief geological agents in effecting changes upon the earth's surface at present—air, rain, springs, rivers, frost, glaciers, the sea, earthquakes and volcanoes. Geological history of the earth, origin of mountains, tablelands, and valleys; leading features of plant and animal life during the primary, secondary, and tertiary periods. (Geikie's *Elementary Lessons in Physical Geography*; Jukes' *School Class-Book of Geology*.)

EXTRA SUBJECTS,

In which Candidates may volunteer for Examination, values obtained in either being acknowledged in the Certificate granted, but not added to the Candidate's aggregate marks.

A.—DEPARTMENT OF DRAWING.

(a.) Drawing or Painting from a Model, with Light and Shade, or in Colour.

(b.) Drawing in Perspective.

Candidates may undertake either of these Sections.

B.—DEPARTMENT OF MUSIC.

The Grammar of Music and the Principles of Musical Composition.

PRIVILEGES ATTACHING TO THE HONOUR CERTIFICATES.

1. This Certificate, in case of indicating that the holder has passed in Latin, Greek, and Mathematics, may be presented by a Student at the time of his entrance to the University, and will be accepted by the Professors in the Faculty of Arts as evidence of qualification to attend the higher classes in these subjects. The holder will thus have the advantage of entering for the Curriculum of Three Sessions in Arts.

2. By a Regulation of the General Medical Council, Honour Certificates granted at the Edinburgh University Local Examinations are sufficient to secure exemption, for such subjects as are mentioned in the Certificate, from the Medical Preliminary Examinations in any University or Medical School in the United Kingdom.

3. Ladies who hold these certificates are exempted from the Entrance Examination for Girton College, Cambridge.

4. Ladies who hold these Certificates may have their names entered on the Calendar established by the Rugby Council for Promoting the Education of Women. This Calendar is a medium of communication between Ladies who have passed any University Examination for Women, and desire educational work in Schools, Special Classes, or Private Families

on the one hand, and Managers of Schools, Educational Committees, and ladies who may wish to meet with such teachers on the other. The Secretary, Mrs F. E. Kitchener, Schoolhouse, Newcastle, Staffs, enters names in the Calendar. Entrance Fee, 2s. 6d., gives the right of applying to the Secretary at any time. Additional fee of 2s. 6d. on each situation obtained.

The following Bursaries for Young Women are offered through the Ladies' Educational Association for competition at the Local Examinations of the University of Edinburgh in June 1879:—

1. £50 for one year, the gift of Miss Dundas, to be won by the Candidate who takes Honours in Three Subjects, one of which must be Latin or Mathematics. (*In either of the two last a standard of 70 per cent. must be attained.*) The Candidate must be the holder of no other Bursary; must have received no part of her education in Edinburgh or Glasgow; and must agree to study in the Classes of the Association with a view to taking the University Certificate for Women.

2. For those intending to become Teachers, £30 for two years, the Houldsworth Bursary, to be won by the Candidate who, being the holder of no other Bursary, takes the highest marks, provided that she has taken Latin among her Preliminary Subjects, and that she intends to study in the classes of the Association for an Honour University Certificate with a view to becoming a teacher.

3. For Boys and Girls equally—£10 for one year, and

4. £5 for one year, both the gift of Miss Louisa Stevenson, to be won by the Candidates (boys or girls) who pass highest and second highest in the Preliminary Subjects, including Latin and Scripture History.

The National Union for Improving the Education of Women of all classes have annually offered a Scholarship of £25, tenable for one year, to the girl over 16 years of age on January 1st, 1878, who stands highest at the above examinations, and is not the holder of any other Scholarship, provided that, in the opinion of the Examiners, her work is not only relatively better than that of other candidates, but absolutely good enough to entitle her to the reward. The successful Candidate is to pursue her studies for one year at some place of superior instruction in the United Kingdom, or abroad, approved by the National Union. The names of Candidates must be sent in to the Secretary, 112 Brompton Road, London, S.W., at least two days before the examinations commence.

Grant in aid of Local Scholarship.—The Executive Committee of the Edinburgh Ladies' Educational Association offers a grant of £20 in aid of a local subscription for a Scholarship tenable for two years, to the best of the candidates at any Local centre, who undertakes to study in the classes of the Association with a view to obtaining the Edinburgh University Certificate for Women.

This sum of £20 will be given to the town or district in which £20 shall first be collected, so as to make up a Bursary of £20 tenable for two years.

Applications stating that the sum specified has been collected will be received by the Hon. Treasurer of the Association, Miss Louisa Stevenson, 13 Randolph Crescent, Edinburgh, up to 1st January 1879.

A grant of £25, previously advertised, has been claimed by Alloa.

CANDIDATES.

1. Candidates will be examined in Edinburgh, and in such other places as the Board may appoint.

A Local Centre will be established for any district undertaking to send up not fewer than six Candidates.

2. Candidates may, on their first appearance, take the *Preliminary Subjects* alone, and may, without additional fee, offer themselves on a subsequent occasion for examination in the *Special Subjects*.

3. Candidates undergoing examination whether in the Preliminary or the Special Subjects may, in the event of failure in only *one* of these, re-appear for examination in that subject, at any succeeding period of examination, without payment of additional fee, and with acknowledgment of having previously passed in the other subjects.

4. The successful candidates will be ranked in two divisions, the first including those who pass in not less than *three special* subjects; the second, those who pass in only *two special* subjects. Candidates in each Division will be ranked in *Two Classes*. In determining the order of merit, the aggregate of marks gained will be taken; but in the case of Candidates who take *more than three* special subjects, no marks will be given for such additional subjects unless the Candidate has gained more than 40 per cent. of the attainable marks; and the marks added from such additional subjects will be the aggregate marks gained, *minus* 40 per cent.

5. Candidates who pass for the Honour Certificate may reappear another year for examination in two or more additional subjects, with the view of adding to the value of the certificate previously obtained.

6. Printed forms, in which Candidates are to make application, will be annually prepared by the 1st May, and must be returned duly filled up to the Secretary in Edinburgh before the 1st June following.

7. FEES.—Every Candidate for an Ordinary Certificate is required to pay a fee of 20s.; every Candidate for an Honour Certificate a fee of 30s.—excepting in the case of those who have previously obtained an Ordinary Certificate, when the fee will be 20s. These fees must be paid on or before the 15th June. No fee can be returned under any circumstances.

Under Special Regulations, given below, managers of schools may present whole classes for examination in selected subjects.

All necessary information may be obtained by applying to the Secretary to the Board, at the University.

By order of the Board,

H. CALDERWOOD, LL.D., Secy.

EXAMINERS.

A.—Department of Languages.

- Principal Sir ALEXANDER GRANT, Bart., LL.D.
 JOHN S. BLACKIE, Professor of Greek.
 W. Y. SELLAR, LL.D., Professor of Humanity.
 JULIUS EGGELING, Professor of Sanskrit and Philology.
 S. S. LAURIE, M.A., Professor of Education.
 HUGH WILSON, M.A., Classical Examiner.
 G. STRATHAIRN, M.A., Assistant to the Professor of Humanity.
 GEO. B. GARDINER, M.A., Assistant to the Prof. of Greek.

B.—Department of English.

- A. C. FRASER, LL.D., Professor of Logic and Metaphysics.
 DAVID MASSON, LL.D., Professor of Rhetoric and English Literature.
 H. CALDERWOOD, LL.D., Professor of Moral Philosophy.
 W. B. HODGSON, LL.D., Professor of Political Economy.
 A. H. CHARTERIS, D.D., Professor of Biblical Criticism.
 ROBERT FLINT, D.D., Professor of Divinity.
 W. CUNNINGHAM, M.A., D.Sc., Examiner in Mental Philosophy.
 THOMAS SHAW, M.A., LL.B., Assistant to the Professor of Moral Philosophy.
 W. R. SORLEY, M.A., Assistant to the Professor of Logic.
 THOMAS GILRAY, M.A., Assistant to the Professor of Rhetoric and English Literature.

C.—Department of Mathematics and Natural Philosophy.

- PHILIP KELLAND, M.A., Professor of Mathematics.
 P. G. TAIT, M.A., Professor of Natural Philosophy.
 J. A. BLAIKIE, M.A., Examiner in Mathematics.
 R. K. GALLOWAY, M.A., Assistant to the Professor of Mathematics.
 P. R. SCOTT LANG, M.A., Assistant to the Professor of Natural Philosophy.

D.—Department of Science.

- A. C. BROWN, M.D., Professor of Chemistry.
 SIR WYVILLE THOMSON, LL.D., Prof. of Natural History.
 J. H. BALFOUR, M.A., M.D., Professor of Botany.
 WM. RUTHERFORD, M.D., Professor of Physiology.
 ARCHIBALD GEIKIE, LL.D., Professor of Geology.
 DE BURGH BIRCH, Assistant to the Professor of Physiology.

- A. P. AITKEN, M.A., D.Sc., Assistant to the Professor of Chemistry.
 I. B. BALFOUR, M.B., D.Sc., Assistant to the Professor of Natural History.
 JOHN SADLER, F.R.P.S., Assistant to the Professor of Botany,

E.--Drawing.

Miss WOON, Art School, Edinburgh.

F.—Music.

SIR HERBERT OAKELEY, M.A., Mus. Doct., Prof. of Music.

LOCAL CENTRES AND SECRETARIES.

<i>Aberdeen</i>	DAVID LITTLEJOHN, Esq., Advocate.
<i>Alloa</i>	
<i>Arbroath</i>	H. CORSTORPHINE, Esq., High School.
<i>Auchtermuchty</i> ...	Miss RENTON, Southfield House.
<i>Ayr</i>	Rev. JOHN MACKAIL, M.A.
<i>Banff</i>	Rev. G. WALKER, St Andrew's Parsonage.
<i>Bathgate</i>	Rev. ALEXANDER SHENNAN.
<i>Berwick on Tweed</i>	
<i>Broughty Ferry</i> ..	Rev. GEORGE STEPHEN.
<i>Burntisland</i>	
<i>Campbeltown</i>	Rev. G. W. STRANG, M.A.
<i>Dollar</i>	
<i>Dunblane</i>	
<i>Dundee</i>	J. BREBNER, Esq., Tay Square Institution.
<i>Dunse</i>	JAMES WOOD, Esq., Wellfield Academy.
<i>Edinburgh</i>	Professor CALDERWOOD, <i>Gen. Sec.</i>
<i>Forres</i>	Rev. W. WATSON.
<i>Glasgow</i>	Rev. R. M. TAYLOR, Brown Library, 66 Virginia Street.
<i>Greenock</i>	JOHN GRAHAM, B.A., Collegiate School.
<i>Helensburgh</i>	ALEXANDER URE, Esq., Cairndhu.
<i>Kelso</i>	W. LAYTON, Esq., Rector of the High School.
<i>Kingussie</i>	Rev. K. MACKENZIE, M.A.
<i>Lenzie</i>	
<i>Lockerbie</i>	R. MUIR, Head Master of Public School.
<i>Montrose</i>	DAVID CAMPBELL, English Master in the Academy.
<i>Perth</i>	Dr BOWER, R.N.
<i>Peterborough</i>	Rev. S. PHILLIPS, M.A., Precentor of the Cathedral.
<i>Portree</i>	A. MACDONALD, Esq., National Bank.
<i>Turriff</i>	

LIST OF CANDIDATES
WHO PASSED THE PRELIMINARY SUBJECTS IN 1877.

Arranged according to Centres of Examination.

NAME.	Eng.	Hist. and Geo.	Latin.	Arith.	Scrip. Hist.	TOTAL.
I.—ABERDEEN.						
Bella M'Kerron,	73	56	89	81	44	343
Rebecca Forbes,	74	60	...	79	58	271
Mary Struthers, ..	61	70	...	65	59	255
Agnes M. Simpson,	69	53	...	58	51	231
Katherine E. Milligan,	65	54	...	53	40	212
Mary Antoinette Forbes,	54	69	...	40	45	208
Jessie Tytler,	54	57	...	40	44	195
II.—ARBROATH.						
Frederick Wm. Duke,	83	81	93	84	53	394
David Whyte Fairweather,	75	82	91	75	40	363
William Thomas Prout,	78	63	91	73	47	352
William S. Sutherland,	70	84	71	69	58	352
John Hay,	75	59	95	73	48	350
John P. R. Anderson,	66	62	76	100	45	349
Emma Leslie,	67	68	85	80	40	340
Edward Whitton,	66	58	88	82	40	334
Marion Eliza Ross,	78	59	71	80	45	333
David Kinnear Keith,	69	78	80	58	41	326
Leonora J. Irvine,	79	50	44	71	68	312
Jane Hood,	75	71	...	72	52	270
Christina J. L. Smith,	77	66	...	59	59	261
Hannah D. Thomson,	81	61	...	68	50	260
Jane Ann Francis,	76	84	...	48	52	258
Edith Mary Thompson,	71	79	...	60	40	250
Mary Elizabeth Sturrock,	78	64	...	57	40	239

NAME.	Eng.	Hist. and Geo.	Latin.	Arith.	Scip. Hist.	TOTAL.
III.—AUCHTERMUCHTY.						
Emma Wilkinson Wood,.....	64	75	...	55	54	248
IV.—AYR.						
Grace Fairley,	74	68	95	74	58	369
Elizabeth M'Whirter,.....	75	91	...	82	55	303
Florence Bulkeley,.....	73	43	...	65	40	221
V.—BANFF.						
Patrick Rose Harper,	68	53	90	57	52	320
Lisa M. Ker,	86	42	65	48	48	289
William P. Ker,.....	69	40	84	40	40	273
Charlotte Jamieson,.....	62	79	...	69	55	265
Alan David Ker,	75	40	61	48	40	264
Mina Cantlie,.....	56	73	...	45	47	221
VI.—BATHGATE.						
John Hunter,	65	82	52	76	53	328
John Wilson,	64	86	49	73	52	324
William Allan,.....	66	65	69	78	42	320
Peter Lamb,	66	62	58	69	40	295
VII.—BROUGHTY-FERRY.						
Jessie Brown Anderson,	78	83	...	76	62	299
Martha A. Guthrie, ...	76	85	...	56	65	282
Susan Robertson,.....	78	87	...	55	48	268
Elizabeth Scott Bruce,	65	76	...	53	52	246
Helen Marshall,	60	68	...	40	54	222
Mary Jane Bartholomew,	68	55	...	48	50	221
Georgina B. Ogilvie,.....	58	67	...	50	40	215
Maggie O. Alexander,.....	53	54	...	57	45	209
Mary A. Robb,	58	66	...	40	42	206
VIII.—CAMPBELTOWN.						
John Dickinson,.....	61	75	77	77	...	290
Charles Mactaggart,	63	78	70	58	...	269
James Rae,.....	61	60	82	64	...	267

NAME.	Eng.	Hist. and Geo.	Latin.	Arith.	Scrip. Hist.	TOTAL.
John Harvey Bell,.....	62	61	71	65	...	259
Duncan M'Michael,.....	58	56	62	69	...	245
Jessie Ferguson,.....	63	51	50	56	...	220
W. Gregory Gibson,.....	44	57	42	65	...	208
William Tait,.....	44	49	56	43	...	192
Robert Francis Haig,.....	43	47	41	50	...	181
Euphemia Campbell,.....	59	56	...	58	...	173
Mary Macfadzean,.....	64	55	...	50	...	169
Tindie B. Mactaggart,.....	53	63	...	48	...	164
IX.—DOLLAR.						
William Winslow Hall,.....	73	72	79	55	69	348
John Young Hall,.....	63	53	87	62	63	328
Ursula Johnstone,.....	58	41	69	81	48	297
Helen Drysdale,.....	57	47	...	51	47	202
X.—DUNDEE.						
Robert W. C. Mackenzie,.....	76	62	85	90	51	364
George A. Pirie,.....	75	61	65	81	53	335
Alfred William Boase,.....	58	40	58	51	40	247
Agnes C. Thomson,.....	64	75	...	62	40	241
XI.—DUNSE.						
Philip Wilson,.....	69	49	67	79	46	310
Andrew Geggie,.....	66	61	60	76	40	303
Jonathan Russell,.....	63	73	60	40	48	284
Charles R. M'Watt,.....	63	51	65	48	46	273
Annie Elliot,.....	62	80	...	63	63	268
Robert D. Shiels,.....	61	47	66	44	40	258
John W. Stuart,.....	60	50	40	61	46	257
Robert Young,.....	53	66	40	53	40	252
Kate Neilson,.....	66	75	...	67	42	250
Mary Pickersgill,.....	51	76	...	69	47	243
Isabella Blackadder,.....	55	67	...	55	40	217
Mary D. Stephenson,.....	63	62	...	40	46	211
Isabella B. Stephenson,.....	69	58	...	42	40	209
Jane Calder,.....	42	67	...	40	40	189

NAME.	Eng.	Hist. and Geo.	Latin.	Arit	Scrip Hist.	TOTAL.
XII.—EDINBURGH.						
Cecily C. Clark,	81	76	70	72	75	374
Ann W. Munro,	77	79	89	73	54	372
Agnes T. Crawford,	71	58	76	66	72	343
Margaret Stalker,	73	78	81	69	42	343
Frances Gair,	71	92	54	44	71	332
Janet Y. Turnbull,	80	86	...	81	70	317
Elizabeth Gordon,	85	72	...	84	71	312
Janet Y. Brown,	74	42	68	82	40	306
Alison Isles,	79	83	...	65	70	297
Ellen J. Freuer,	76	52	61	43	62	294
Margaret Davidson,	74	74	...	79	67	294
Maggie M'Culloch,	71	81	...	82	58	292
Jane Robertson,	72	77	...	81	62	292
Bessie H. Smith,	72	80	...	71	69	292
Margaret E. Touch,	77	72	...	82	59	290
Alice L. Stronach,	71	76	...	78	65	290
Jane Burnside, ...	76	86	...	67	59	288
Catherine Ray,	55	71	51	50	60	287
Margaret Milne,	71	68	...	94	52	285
Mary F. Reid,	67	92	...	43	83	285
Adie M. Isbister,	77	74	...	75	58	284
Mary C. Capper,	73	82	...	81	47	283
M. C. Morham,	73	79	...	73	58	283
Mary Wilson,	74	51	...	88	69	282
Helen M. Irving,	65	79	...	71	65	280
Isabella B. Pryde,	72	40	54	61	51	278
Agnes S. Isbister,	80	80	...	55	62	277
Mary Wilson,	69	61	...	83	64	277
Charlotte E. Ainslie,	68	69	...	69	70	276
Jessie A. Morgan,	69	67	...	81	59	276
Mina Cairns,	69	89	...	58	59	275
Jeanie C. Kennedy,	86	69	...	70	50	275
Bessie Warden,	75	68	...	65	66	274
Elizabeth M'Call,	77	55	...	78	64	274
Olivia V. Mackay,	63	68	...	82	57	270
Eliza W. Greig,	68	67	...	72	63	270
Mary I. Ogilvie,	80	84	...	45	59	268
Jeanie M'Arthur,	75	59	...	72	62	268
Maggie L. Roberts,	69	75	...	61	62	267
Agnes Wyllie,	69	72	...	65	60	266
Alexander E. Bailey,	61	60	45	58	40	264

NAME.	Eng.	Hist. and Geo.	Latin.	Arith.	Scrip. Hist.	TOTAL.
Helen A. Laughton,.....	61	86	...	73	44	264
Edith A. Mease,	68	75	...	72	48	263
Isabella W. Thomson,.....	52	78	...	66	65	261
Eliza Mailer,.....	70	66	...	72	53	261
Lizzie Walker,.....	68	81	...	65	47	261
Margaret A. Sangster,	52	71	...	82	55	260
Jane L. Anderson,.....	65	65	...	83	45	258
Jemima J. Francis,.....	69	70	...	77	40	256
Matilda Hepburn,	46	54	49	41	66	256
Elizabeth A. Anderson,.....	78	63	...	56	58	255
Arthur P. Laurie,	61	50	89	55	..	255
Janet M. Duncanson,.....	72	92	...	49	41	254
Agnes S. Falconer,.....	60	69	...	65	60	254
Jane C. Fisher,.....	69	74	...	51	59	253
Christina M. Baikie,	61	61	...	82	47	251
Agnes Osborne, ..	73	70	...	61	47	251
Clara Stoker,	67	57	...	62	64	250
Eliza Spence,	75	72	...	48	54	249
Jessie F. Clark,	61	59	...	76	53	249
Nellie M. Masson,.....	62	50	...	94	42	248
Annie Bell, ..	68	54	...	79	47	248
Lizzie M. Ritchie,	71	55	...	82	40	248
Alexander B. Thomson,.....	42	50	60	55	40	247
Frances A. Brebner,.....	66	62	...	66	53	247
Elizabeth Turner,.....	52	67	...	75	53	247
Andrina J. Alexander,	66	66	...	68	46	246
Edith Brown, ..	59	63	...	70	54	246
Duncan M. Abel,.....	52	53	40	59	41	245
Magdalene A. Robertson,.....	65	61	...	65	53	244
Jane Johnston,	70	44	...	82	47	243
M. M'Gregor Macpherson,	72	40	40	40	51	243
A. J. Leith,	70	50	...	69	52	241
Jessie L. Smellie,.....	72	66	...	63	40	241
Catherine C. Goodfellow,.....	52	74	...	63	52	241
Annabella H. Alexander,.....	66	72	...	61	42	241
Margaret Scrymgeour,.....	65	58	...	48	67	238
Mary E. Vernon,	72	61	...	48	57	238
Bessie J. Mason,	69	46	...	81	40	236
Alice C. Hamilton,	70	72	...	40	54	236
Madeline G. Logan,	68	55	...	61	52	236
Jessie Macdonald,	60	64	...	69	42	235
Christina B. Gardner,	62	54	...	79	40	235
Isabella Faichnie,	48	82	...	40	62	232

NAME.	Eng.	Hist. and Geo.	Latin.	Arith.	Scrip. Hist.	TOTAL.
Catherine J. Urquhart,.....	68	58	...	43	63	232
Mary Crudelius,.....	64	84	...	83	...	231
Margaret R. Cunningham,.....	64	61	...	55	51	231
Maggie J. Orr,.....	63	60	...	67	40	230
C. Douglas L. M'Grigor,.....	77	60	...	51	42	230
Margaret Beveridge,.....	69	40	...	73	48	230
Maggie M. Mackay,.....	64	79	...	40	47	230
Agnes B. Turner,.....	60	55	...	63	50	228
Margaret Buchanan,.....	63	70	...	55	40	228
Mary E. Hardy,.....	64	57	...	61	45	227
Mary Hay,.....	65	76	...	41	45	227
Christina L. C. Murray,.....	62	63	...	50	51	226
Helen B. Thomson,.....	59	40	...	47	80	226
Agnes Law,.....	61	54	...	67	42	224
Mary J. Petrie,.....	44	66	...	55	59	224
Elizabeth C. Robertson,.....	59	43	...	81	40	223
Mary A. T. Douglas,.....	55	55	...	41	70	221
Mina Dunlop,.....	68	61	51	40	...	220
M. Lily Smith,.....	76	55	...	48	40	219
Emily M. Wilson,.....	68	40	...	63	47	218
Maggie C. Macpherson,.....	64	52	...	57	45	218
Mary A. K. Branford,.....	56	54	...	61	46	217
Maggie Hay,.....	57	62	...	49	48	216
Janet E. Carphin,.....	60	57	...	47	51	215
Helen Donald,.....	45	49	...	79	40	213
Mary E. Kitsell,.....	51	64	...	51	47	213
Janet B. Macnab,.....	59	45	...	68	41	213
Georgina M'Donald,.....	57	64	...	41	45	207
Mary E. Abbott,.....	74	76	...	55	...	205
Isabella Denham,.....	61	52	...	50	40	203
Jeannie Purves,.....	58	64	...	41	40	203
Jessie Morham,.....	57	47	...	41	58	203
Iizzie Kerr,.....	56	42	...	63	40	201
Margaret R. Aikman,.....	51	56	...	40	53	200
Susan R. Carphin,.....	63	40	...	48	48	199
Lousia E. Leete,.....	84	54	...	59	...	197
Isabella Forman,.....	40	55	...	56	40	191
Mary C. Kay,.....	48	50	...	46	47	191
Eliza Miller,.....	49	56	...	40	44	189
Maria Edwards,.....	62	61	...	63	...	186
Elizabeth R. Telfer,.....	40	47	...	50	45	182
Davina Low,.....	50	53	..	47	...	150
Eliza A. B. Low,.....	51	44	...	45	...	140

NAME.	Eng.	Hist and Geo,	Latin.	Arith.	Scrip. Hist.	TOTAL.
XIII.—FORRES.						
Jessie Raff,.....	59	73	...	55	53	240
Alice Helen Davidson,.....	52	63	...	69	45	229
Jessie Forsyth,	52	40	...	69	47	208
XIV.—GLASGOW.						
Robert Morris,	74	67	43	82	55	321
Kate E. Campbell,.....	77	89	...	73	55	294
Joseph Miller,	64	44	46	55	48	257
Maggie Parker,.....	71	64	...	59	51	245
John Edgar,.....	60	57	40	40	41	238
Margaret Agnes Smith,.....	73	78	...	45	...	196
XV.—GREENOCK.						
John Hughes,	60	69	46	54	48	277
David W. Mackenzie,.....	60	57	42	75	40	274
Robert Allison,	40	43	52	40	50	225
Robert C. Robertson,.....	40	40	40	47	40	207
XVI.—HELENSBURGH.						
Helen T. Fleming,.....	64	50	40	55	60	269
Isabella R. Ure,.....	64	64	...	58	51	237
Catherine J. Blackwood,.....	57	71	...	50	50	228
Mary Macadam,.....	44	60	...	55	55	214
Lizzie Templeton,	46	53	...	42	46	187
Helen C. Dingwall,.....	40	63	...	40	44	187
Jessie M'Micking,	40	48	...	59	40	187
Hannah C. Mactaggart,	42	59	...	40	42	183
Ann Eliza Steven,.....	40	59	...	40	40	179
XVII.—KELSO.						
David S. Cairns,.....	80	68	86	81	48	363
William Thomson,	75	78	87	71	...	311
Thomas Elliott,	62	69	75	65	...	271
William Moscrip,.....	75	67	44	82	...	268

NAME.	Eng.	Hist. and Geo.	Latin.	Arith.	Scrip- Hist.	TOTAL.
James Shiel Thomson,	55	53	57	81	...	246
William George Lay,	60	46	86	47	...	239
Thomas Rae,	62	53	56	62	...	233
Edward H. Ballard,	67	44	40	53	...	204
XVIII.—KINGUSSIE.						
Alexander M. C. Tolmie,	77	65	90	100	52	384
John Duncan,	73	91	81	83	53	381
Donald M'Intyre,	59	60	84	90	71	364
Roderick MacLennan,	77	65	74	100	46	362
Laurence Cuthbert,	73	63	80	83	47	346
John B. Forrest,	66	77	77	82	40	342
Alexander Stewart,	56	76	61	61	54	308
Eliza Hobb,	78	80	...	80	62	300
Alexander Macrae,	59	69	44	61	55	288
Christina J. Mackenzie,	78	67	...	80	62	287
Annie Cattnach,	73	67	...	82	62	284
John Cuthbert,	61	57	51	65	42	276
Marjory Macpherson,	45	79	...	72	57	253
XIX.—LOCKERBIE.						
Georgina Nixon,	58	66	65	65	48	302
Agnes Cameron,	63	60	52	65	57	297
J. G. Thompson,	62	44	40	80	63	289
W. E. Fowler,	71	40	52	40	47	250
Robert P. G. Williamson,	55	57	45	45	42	244
William J. Smith,	57	64	41	40	40	242
Maggie Patterson,	57	63	...	81	40	241
Agnes M. Davidson,	62	60	...	65	52	239
Williamina Cowan,	59	59	...	77	41	236
Jane A. Little,	65	65	...	65	40	235
Maggie M. Bell,	50	60	...	80	40	230
Susan Davidson,	57	62	...	65	40	224
XX.—LONDON.						
Amy Smith,	40	40	...	57	...	137

NAME.	Eng.	Hist. and Geo.	Latin.	Arith.	Scrip. Hist.	TOTAL.
XXI.—MONTROSE.						
Mary Cameron,	82	93	93	94	69	431
William Cumming,	78	76	91	77	46	368
Lizzie D. S. Maconachie,	84	93	...	77	59	313
Alexander Watt,	64	70	84	50	40	308
May Mackintosh,	84	87	...	68	48	287
Annie Lackie,	71	85	...	82	48	286
Annie Grace Sutherland,	75	61	...	82	44	262
Isabella Innes,	77	73	...	45	...	195
XXII.—PERTH.						
James William Burton,	52	51	90	80	48	270
Ronald W. F. Shaw,	67	56	69	53	53	242
Sarah Burton,	56	45	...	42	48	191
Edward William Cumming,	51	43	54	42	44	191
XXIII.—PETERBOROUGH.						
Edith Margaret Argles,	78	94	...	82	71	325
A. C. Magee,	63	75	...	85	58	281
Agnes Harriette Saunders,	71	85	...	56	58	270
J. E. Magee,	71	86	...	49	63	269
Fanny Levien,	77	76	...	40	45	238
Alice Julia Argles,	54	88	...	40	40	222
Clara E. Pughe,	59	45	...	40	42	186
XXIV.—PORTREE.						
Anna Georgina Macphail, ..	74	84	77	52	63	350
Christina Taylor,	66	57	...	58	52	233

LIST OF CANDIDATES WHO OBTAINED CERTIFICATES IN 1877.

The position of Candidates is determined exclusively by the marks gained for Special Subjects. The Preliminary Subjects, being merely pass subjects, are not reckoned here. When a candidate has taken four subjects, the three in which the highest marks have been obtained are counted together. Of the marks gained for the fourth subject, only those which are above 40 per cent. are added.

Prizes have been awarded to those who have attained 70 per cent. in Two Subjects.

BURSARIES FOR FEMALE CANDIDATES.

I.—GENERAL BURSARIES.

Miss Janie Craigie, Edinburgh. Miss Mary R. Walker, Edinburgh.

II.—DISTRICT BURSARIES.

Miss Mary C. Watson, Helensburgh. Miss Eliza Hobb, Kingussie.

HONOUR CERTIFICATES.

DIVISION A.—CANDIDATES WHO HAVE PASSED IN FOUR SUBJECTS. FIRST CLASS.

NAME.	SCHOOL.	TOTAL MARKS.
Janie Craigie (1st Bursar),	George Watson's College School for Ladies,	308
Mary R. Walker (2d Bursar),	Student of Mr M'Glashan's Classes,	297
Maggie M'Culloch (Prize),	George Watson's College School for Ladies,	276
Joan Lyall (Prize),	Edinburgh Merchant Company's Ladies' Col. Sch.,	264
Alice Drysdale (Prize),	Edinburgh Merchant Company's Ladies' Col. Sch.,	263
Elizabeth M'Call (Prize),	Edinburgh Merchant Company's Ladies' Col. Sch.,	261
Bessie Moir (Prize),	Montrose Academy,	260

HONOUR CERTIFICATES—continued.

NAME.	SCHOOL.	TOTAL MARKS
Janet Y. Turnbull (<i>Prize</i>),	Private Study,	255 {
Maggie M. Hogg (<i>Prize</i>),	Dollar Institution,	255 {
Mary Crabb (<i>Prize</i>),	Miss Barland's Private Classes,	247
Louisa Dundas (<i>Prize</i>),	Student of Mr M'Glashan's Classes,	244
Annie O. Pringle (<i>Prize</i>),	George Watson's College School for Ladies,	239
Jane Burnside (<i>Prize</i>),	Corresponding Student of Mr M'Glashan's Classes,	237
Wm. H. Martin (<i>Prize</i>),	Dundee Institution,	235 {
Margaret A. Wright (<i>Prize</i>),	Private Study,	235 {
Cecilia Blanshard (<i>Prize</i>),	Miss Du Plessis and Miss Black's School, Edinburgh	233
Robina H. Young (<i>Prize</i>),	Edinburgh Merchant Company's Ladies' Col. Sch.,	232
Grace Fairley (<i>Prize</i>),	Private Study,	227
Annie F. Hardy (<i>Prize</i>),	Edinburgh Merchant Company's Ladies' Col. Sch.,	225
Emma E. Offord (<i>Prize</i>),	Private Classes,	224 {
Dora Marion Oliver (<i>Prize</i>),	Edinburgh Merchant Company's Ladies' Col. Sch.,	224 {
Mary C. Watson (<i>Prize</i>),	Glenfruin House School, Helensburgh,	224 {
Anna Georgina Macphail (<i>Prize</i>),	Corresponding Student of Mr M'Glashan's Classes,	220
Richard Davidson (<i>Prize</i>),	Public School, Lockerbie,	218
Marion S. Wilkie (<i>Prize</i>),	Edinburgh Merchant Company's Ladies' Col. Sch.,	215
Elizabeth A. Anderson (<i>Prize</i>),	Edinburgh Merchant Company's Ladies' Col. Sch.,	211
Jessie M. H. Turner,	Edinburgh Merchant Company's Ladies' Col. Sch.,	210
Eliza M. Rodgers (<i>Prize</i>),	Montrose Academy,	209
Helen F. Fleming (<i>Prize</i>),	Private Tuition,	207
Elizabeth R. M. Porteous,	Private Study,	204
Annie A. Arnott,	George Watson's College School for Ladies,	201 {
Mary E. Baldry (<i>Prize</i>),	Edinburgh Merchant Company's Ladies' Col. Sch.,	201 {
Leonora Jane Irvine,	High School, Arbroath,	200 {
Mary A. Lyall,	Montrose Academy,	200 {

SECOND CLASS.

Maggie Clark (<i>Prize</i>),	Montrose Academy,	187
Ann Morrison,	Edinburgh Merchant Company's Ladies' Col. Sch.,	185
Charles M'L. Robson,	Wellfield Academy, Dunse,	182
Annabella H. Alexander,	Edinburgh Merchant Company's Ladies' Col. Sch.,	177
Mary H. Leask,	Private Study,	173
Henry A. Malcolm,	Dundee Institution,	169
W. Malcolm,	Dundee Institution,	151

DIVISION A.—CANDIDATES WHO HAVE PASSED IN THREE SUBJECTS.

FIRST CLASS.

Grace B. Thomson (<i>Prize</i>),	Student of Mr M'Glashan's Classes,	224
Helen Meldrum (<i>Prize</i>),	Edinburgh Merchant Company's Ladies' Col. Sch.,	224
Mary J. Ogilvie (<i>Prize</i>),	Miss Brown's School, Edinburgh,	221
Catherine M. M'icking (<i>Prize</i>),	Glenfruin House School, Helensburgh,	220
Agnes Rainie (<i>Prize</i>),	Private Study,	212
Catherine Ray (<i>Prize</i>),	Student of Mr M'Glashan's Classes,	209
Christina J. L. Smith (<i>Prize</i>),	East of Scotland Institute, Dundee,	204
Marjory Henderson (<i>Prize</i>),	Trades Maiden Hospital,	202
Ann W. Munro (<i>Prize</i>),	Edinburgh Merchant Company's Ladies' Col. Sch.,	200
Edith Brown (<i>Prize</i>),	Moravian School, Bedford,	195
Richard J. Angus (<i>Prize</i>),	Bathgate Academy,	192
Mary L. Taylor (<i>Prize</i>),	St Leonard's School, Banff,	188
Elizabeth Lindsay Seton,	Private Classes,	187
Ella B. Baynham,	Glenfruin House School, Helensburgh,	185
Agnes Wyllie,	Miss Brown's School, Edinburgh,	185
John Wilson (<i>Prize</i>),	Bathgate Academy,	185
Hannah D. Thomson,	High School, Arbroath,	183
Barbara A. Gibson,	Edinburgh Merchant Company's Ladies' Col. Sch.,	181
Margaret S. Thomson,	Private Classes,	180

HONOUR CERTIFICATES—*continued*.
SECOND CLASS.

NAME.	SCHOOL.	TOTAL MARKS.
Elsie Grant,	Tulloch Park School, Forres,	173
Jeanie B. Lumsden,	St Leonard's School, Banff,	171
James B. Kirk,	Bathgate Academy,	169
Isabella R. Ure,	Glenfruin House School, Helensburgh,	168
Isabella T. Lambert,	Southfield House School, Auchtermuchty,	166
C. Douglas L. Macgregor,	Private Classes,	166
Elizabeth A. Smith,	Edinburgh Merchant Company's Ladies' Col. Sch.,	166
James Wilson,	Bathgate Academy,	164
Robert H. Shaw,	Wellfield Academy, Dunse,	163
Janet Renton,	Southfield House School, Auchtermuchty,	162
Arthur Moulbray,	Collegiate School, Greenock,	159
Edith Ramsay,	St Leonard's School, Banff,	155
James Murray,	Public School, Church Street, Nairn,	154
Janet M'Lellan,	Glenfruin House School, Helensburgh,	153
Maggie D. Reid,	Edinburgh Merchant Company's Ladies' Col. Sch.,	150
Elizabeth Gordon,	Private Study,	149
Agnes J. Fletcher,	Glenfruin House School, Helensburgh,	146
Ada P. Strachan,	Corresponding Student of Mr M'Glashan's Classes,	145
Helen B. Thomson,	Mr Gibb's School, Edinburgh,	141
Arthur P. Laurie,	Edinburgh Academy,	127

DIVISION B.—CANDIDATES WHO HAVE PASSED IN TWO SUBJECTS.

SECOND CLASS.

Helen M. Maxwell,	Southfield House School, Auchtermuchty,	116
Mary M. Scott,	Edinburgh Merchant Company's Ladies' Col. Sch.,	114

Francis Forrest,.....	Wellfield Academy, Dunse,.....	112
Susan A. Black,.....	Tulloch Park School, Forbes,.....	111
Mary K. Anderson,.....	Ashmount School, Helensburgh,.....	110
Charlotte A. Smith,.....	Private Study,.....	108
Robert T. Allan,.....	Wellfield Academy, Dunse,.....	98
William L. Shields,.....	Wellfield Academy, Dunse,.....	84
James S. M'Watt,.....	Wellfield Academy, Dunse,.....	81

ORDINARY CERTIFICATES.

DIVISION A.—CANDIDATES WHO HAVE PASSED IN FOUR SUBJECTS.

FIRST CLASS.

John Young Hall (<i>Prize</i>),.....	Dollar Institution,.....	284
Mary Cameron (<i>Prize</i>),.....	Montrose Academy,.....	283
Jane W. D. Gillon (<i>Prize</i>),.....	Edinburgh Merchant Company's Ladies' Col. Sch.,	275
William Cumming (<i>Prize</i>),.....	Montrose Academy,.....	267
Jane Robertson (<i>Prize</i>),.....	Edinburgh Merchant Company's Ladies' Col. Sch.,	265
Louisa E. Lecte (<i>Prize</i>),.....	Corresponding Student of Mr M'Glashan's Classes,	260
Jane Johnston (<i>Prize</i>),.....	Edinburgh Merchant Company's Ladies' Col. Sch.,	258
Laurence Cuthbert (<i>Prize</i>),.....	Public School, Kingussie,.....	251
David Kinneir Keith (<i>Prize</i>),.....	High School, Arbroath,.....	250
Frederick W. Duke (<i>Prize</i>),.....	High School, Arbroath,.....	242
John C. Thomson (<i>Prize</i>),.....	Public School, Lockertie,.....	242
John Duncan (<i>Prize</i>),.....	Public School, Kingussie,.....	239
Bella M'Kerron (<i>Prize</i>),.....	Corresponding Student, Mr M'Glashan's Classes,...	238
William S. Sutherland (<i>Prize</i>),.....	High School, Arbroath,.....	236
Helen M. Irving (<i>Prize</i>),.....	George Watson's College School for Ladies,.....	235

ORDINARY CERTIFICATES—continued.

NAME.	SCHOOL.	TOTAL MARKS.
Alexander M. C. Tolmie (<i>Prize</i>),	Public School, Kingussie,	233
William Thomas Prout (<i>Prize</i>),	High School, Arbroath,	232
Ronald W. F. Shaw (<i>Prize</i>),	Blackfriars' School, Perth,	229
Bessie H. Smith (<i>Prize</i>),	Edinburgh Merchant Company's Ladies' Col. Sch.,	229
Donald McIntyre (<i>Prize</i>),	Public School, Kingussie,	228
William Winslow Hall (<i>Prize</i>),	Dollar Institution,	227
Isabella B. Pryde (<i>Prize</i>),	Edinburgh Merchant Company's Ladies' Col. Sch.,	223
Leonora I. Irvine (<i>Prize</i>),	High School, Arbroath,	222
Eliza W. Greig,	Edinburgh Merchant Company's Ladies' Col. Sch.,	221
Mary Wilson (<i>Prize</i>),	George Watson's College School for Ladies,	219
Elizabeth C. Robertson (<i>Prize</i>),	Edinburgh Merchant Company's Ladies' Col. Sch.,	211
Jessie Williamson (<i>Prize</i>),	Dollar Institution,	205
Olivia V. Mackay,	Newington Academy, Edinburgh,	201
M. E. Robertson (<i>Prize</i>),	Collegiate School, Greenock,	200
SECOND CLASS.		
Mina Dunlop (<i>Prize</i>),	Mr Gibb's School, Edinburgh,	196
Lizzie M. Ritchie,	George Watson's College School for Ladies,	196
Margaret R. Cunningham,	Mr Gibb's School, Edinburgh,	189
Robert Morris,	Langside Academy, Glasgow,	184
Helen B. Thomson,	Mr Gibb's School, Edinburgh,	180
Mary Hay,	Mr Gibb's School, Edinburgh,	170
John Edgar,	Langside Academy, Glasgow,	166
Jane L. Anderson,	George Watson's College School for Ladies,	166
Catherine J. Blackwood,	Glenfruin House School, Helensburgh,	162
Joseph Miller,	Langside Academy, Glasgow,	139

DIVISION A.—CANDIDATES WHO HAVE PASSED IN THREE SUBJECTS.

FIRST CLASS.

Bessie Warden (<i>Prize</i>),.....	262
Jeanie C. Kennedy (<i>Prize</i>),.....	256
Fanny Levien (<i>Prize</i>),.....	246
John Hay (<i>Prize</i>),.....	238
Eliza Spence (<i>Prize</i>),.....	237
Agnes T. Crawford (<i>Prize</i>),.....	237
Lizzie D. S. Maconachie (<i>Prize</i>),.....	235
Jane Hood (<i>Prize</i>),.....	234
Edith Margaret Argles (<i>Prize</i>),.....	233
Maggie L. Roberts (<i>Prize</i>),.....	231
Edith Annie Mease (<i>Prize</i>),.....	228
Jane Ann Francis (<i>Prize</i>),.....	226
Alice Julia Argles (<i>Prize</i>),.....	225
John Dickinson (<i>Prize</i>),.....	225
Madeline G. Logan (<i>Prize</i>),.....	225
Alice L. Stronach (<i>Prize</i>),.....	222
Maggie C. Morham (<i>Prize</i>),.....	220
Lisa M. Ker (<i>Prize</i>),.....	219
Nellie M. Masson (<i>Prize</i>),.....	217
Edith Mary Thompson (<i>Prize</i>),.....	215
Mary E. Vernon (<i>Prize</i>),.....	214
Jonathan Russell (<i>Prize</i>),.....	213
Mary Elizabeth Sturrock (<i>Prize</i>),.....	212
M. Lily Smith (<i>Prize</i>),.....	210
Maggie Borthwick (<i>Prize</i>),.....	210
David White Fairweather (<i>Prize</i>),.....	210
John Rae (<i>Prize</i>),.....	209
Mr Oliphant's School, Edinburgh,.....	
Edinburgh Merchant Company's Ladies' Col. Sch.,	
Private Tuition,.....	
High School, Arbroath,.....	
Miss Hood's School, Edinburgh,.....	
Student of Mr M'Glashan's Classes,.....	
Montrose Academy,.....	
High School, Arbroath,.....	
Private Tuition,.....	
Edinburgh Merchant Company's Ladies' Col. Sch.,	
Edinburgh Merchant Company's Ladies' Col. Sch.,	
High School, Arbroath,.....	
Private Tuition,.....	
Grammar School, Campbellton,.....	
George Watson's College School for Ladies,.....	
Edinburgh Merchant Company's Ladies' Col. Sch.,	
George Watson's College School for Ladies,.....	
St Leonard's School, Banff,.....	
George Watson's College School for Ladies,.....	
High School, Arbroath,.....	
Corresponding Student of Mr M'Glashan's Classes,	
Wellfield Academy, Dunse,.....	
High School, Arbroath,.....	
Edinburgh Merchant Company's Ladies' Col. Sch.,	
Trades' Maiden Institution, Edinburgh,.....	
High School, Arbroath,.....	
Grammar School, Campbellton,.....	

ORDINARY CERTIFICATES—*continued.*

NAME.	SCHOOL.	TOTAL MARKS.
Agnes Sophia Falconer (<i>Prize</i>),	Edinburgh Merchant Company's Ladies' Col. Sch.,	208 }
Mary Logan (<i>Prize</i>),	Mad. Kunz's School, Edinburgh,	208 }
Mina Cairns (<i>Prize</i>),	George Watson's College School for Ladies,	207 }
Ellen J. Freuer (<i>Prize</i>),	Student of Mr M'Glashan's Classes,	206 }
Kate E. Campbell (<i>Prize</i>),	West of Scotland Institute, Glasgow,	206 }
Margaret Stalker (<i>Prize</i>),	Private Classes,	200 }
Jane C. Fisher (<i>Prize</i>),	Park Place Institution, Edinburgh,	198 }
Eliza Hobbs,	Public School, Kingussie,	197 }
May Mackintosh,	Montrose Academy,	197 }
Catherine Jane Urquhart (<i>Prize</i>),	Private Tuition,	196 }
William Tonkinson (<i>Prize</i>),	Wellfield Academy, Dunse,	196 }
Frances A. Brebner (<i>Prize</i>),	Mr Oliphant's School, Edinburgh,	196 }
Jessie Lucy Smellie,	George Watson's College for Ladies,	196 }
Eliza Mailer (<i>Prize</i>),	Edinburgh Merchant Company's Ladies' Col. Sch.,	195 }
Elizabeth Scott Bruce,	Corresponding Student of Mr M'Glashan's Classes,	194 }
Emily M. Wilson,	Edinburgh Merchant Company's Ladies' Col. Sch.,	192 }
Agnes C. Thomson (<i>Prize</i>),	Corresponding Student of Mr M'Glashan's Classes,	192 }
Jessie Brown Anderson (<i>Prize</i>),	Earle House School, Broughty Ferry,	191 }
Annie Bell,	Edinburgh Merchant Company's Ladies' Col. Sch.,	191 }
Helen A. Laughton (<i>Prize</i>),	Edinburgh Merchant Company's Ladies' Col. Sch.,	189 }
James Stoddart,	Public School, Lockerbie,	188 }
Bessie J. Mason (<i>Prize</i>),	Edinburgh Merchant Company's Ladies' Col. Sch.,	188 }
Jeannie Macdonald,	Trades' Maiden Institution, Edinburgh,	187 }
Christina J. Mackenzie,	Public School, Kingussie,	187 }
Agnes Osborne,	Edinburgh Merchant Company's Ladies' Col. Sch.,	186 }
Elizabeth Turner,	Edinburgh Merchant Company's Ladies' Col. Sch.,	186 }

Alexander Watt,.....	185
Charles Mactaggart,.....	183
Frances Dickenson,.....	183
Mary Wilson,.....	183
David Pool,.....	182
Margaret Milne,.....	182
Christina M. Baikie,.....	180
Agnes B. Turner,.....	180
Alexander W. Laidlaw,.....	180
Montrose Academy,.....	
Grammar School, Campbellton,.....	
Grammar School, Campbellton,.....	
Ministers' Daughters' College,.....	
Public School, Lockerbie,.....	
Edinburgh Merchant Company's Ladies' Col. Sch.,.....	
Edinburgh Merchant Company's Ladies' Col. Sch.,.....	
Edinburgh Merchant Company's Ladies' Col. Sch.,.....	
Public School, Lockerbie,.....	

SECOND CLASS.

Jemima J. Francis,.....	177
John B. Forrest,.....	176
Maggie Parker,.....	174
Margaret Beveridge,.....	173
Annie Cattianach,.....	173
Edward William Cumming,.....	172
Ursula Johnstone,.....	171
Duncan M. Michael,.....	170
Minnie Kynoch,.....	170
A. J. Leith,.....	169
Jessie Raff,.....	166
Mary E. Hardy,.....	164
Maggie M. Mackay,.....	164
Mary E. Kitsell,.....	164
John Hughes,.....	164
Charlotte Jamieson,.....	163
James R. T. Logan,.....	161
Andrew Gaggie,.....	160
Edinburgh Merchant Company's Ladies' Col. Sch.,.....	
Public School, Kingussie,.....	
Corresponding Student of Mr M'Glashan's Classes,.....	
George Watson's College School for Ladies,.....	
Public School, Kingussie,.....	
Blackfriars' School, Perth,.....	
Alloa Academy,.....	
Grammar School, Campbellton,.....	
Dollar Institution,.....	
Edinburgh Merchant Company's Ladies' Col. Sch.,.....	
Tulloch Park School, Fortes,.....	
Edinburgh Merchant Company's Ladies' Col. Sch.,.....	
George Watson's College School for Ladies,.....	
Edinburgh Merchant Company's Ladies' Col. Sch.,.....	
Public School, St Andrew Square, Greenock,.....	
St Leonard's School, Banff,.....	
Wellfield Academy, Dunse,.....	
Wellfield Academy, Dunse,.....	

ORDINARY CERTIFICATES—continued.

NAME.	SCHOOL.	TOTAL MARKS.
Christina L. C. Murray,.....	Mr Gibb's School, Edinburgh,.....	159
Joseph Haggarty,.....	Wellfield Academy, Dunse,.....	159
Susan R. Carphin,.....	Free Church Normal School, Edinburgh,.....	157
Mary Anne K. Branford,.....	Edinburgh Merchant Company's Ladies' Col. Sch.,.....	157
Isabella B. Stephenson,.....	Private Tuition,.....	153
Lizzie Templeton,.....	Glenfruin House School, Helensburgh,.....	153
Jessie F. Clark,.....	Edinburgh Merchant Company's Ladies' Col. Sch.,.....	152
Jessie N. Morrisson,.....	Newington Academy, Edinburgh,.....	151
Elizabeth S. Johnston,.....	Mr Hunter's School, Edinburgh,.....	151
David W. Mackenzie,.....	Public School, St Andrew Square, Greenock,.....	151
Janet Elizabeth Carphin,	Aberussell, Germany,.....	150
Alexander Bremner Thomson,.....	John Watson's Institution,.....	148
Georgina M'Donald,.....	John Watson's Institution,.....	147
Mary Macadam,.....	Glenfruin House School, Helensburgh,.....	147
Elizabeth H. MacLachlan,.....	Glenfruin House School, Helensburgh,.....	147
Mina Cantlie,.....	St Leonard's School, Banff,.....	143
Frances Anne Baynham,.....	Glenfruin House School, Helensburgh,.....	141
W. E. Fowler,.....	Mansion House School, Penrith,.....	140
J. G. Thompson,.....	Mansion House School, Penrith,.....	136
Eliza Mowat,.....	Trades' Maiden Institution,.....	129
Philip Wilson,.....	Wellfield Academy, Dunse,	128

DIVISION B.—CANDIDATES WHO HAVE PASSED IN TWO SUBJECTS.

FIRST CLASS.

Susan Robertson (<i>Prize</i>),.....	Home Park School, Broughty Ferry,.....	157
Christina Taylor (<i>Prize</i>),.....	Corresponding Student of Mr M'Glashan's Classes,.....	154

Martha A. Guthrie (<i>Prize</i>), ..	146
Mary Emily Abbott,	139
Agnes Harriette Saunders, ..	135
A. C. Magee,	132
Mary R. Aikman,	130
Magdalene A. Robertson, ..	130
Mary J. Bartholomew,	126
J. E. Magee,	125
Georgina Williamson,	122
Janet Young Brown,	120
Home Park School, Broughty Ferry,	
Corresponding Student of Mr M'Glashan's Classes, ..	
Private Tuition,	
Private Tuition,	
Edinburgh Merchant Company's Ladies' Col. Sch., ..	
Edinburgh Merchant Company's Ladies' Col. Sch., ..	
Earle House School, Broughty Ferry,	
Private Tuition,	
St Leonard's School, Banff,	
Edinburgh Merchant Company's Ladies' Col. Sch., ..	

SECOND CLASS.

Janet Robertson,	115
Christina Ferguson,	115
Maggie Kynoch,	114
Susan Davidson,	113
M. M'Gregor M'Pherson,	110
Robert Young,	109
Frances Hepburn,	105
Helen Drysdale,	101
Mary C. Kay,	100
Maggie Patterson,	96
Williamina Cowan,	96
Catherine A. Kynoch,	92
John Young,	90
Jessie Forsyth,	89
Jane A. Little,	88
Agnes Leys,	86
Maggie M. Bell,	86
Isabella Forman,	80
Public School, Lockerbie,	
Grammar School, Campbellton,	
Dollar Institution,	
Public School, Lockerbie,	
Corresponding Student of Mr M'Glashan's Classes, ..	
Wellfield Academy, Dunse,	
Miss Turnbull's School, Edinburgh,	
Dollar Institution,	
Edinburgh Merchant Company's Ladies' Col. Sch., ..	
Public School, Lockerbie,	
Public School, Lockerbie,	
Dollar Institution,	
Wellfield Academy, Dunse,	
Tulloch Park School, Forbes,	
Public School, Lockerbie,	
St Leonard's School, Banff,	
Public School, Lockerbie,	
Whitson School, Chirnside,	

EXTRA SUBJECTS.

I. DRAWING.

HONOUR.

NAME.	SCHOOL.	TOTAL MARKS.
Maggie M. Hogg,.....	Dollar Institution,.....	100
Edith Brown,.....	Moravian School, Bedford,	100
Mary H. Leask,	Private Study,.....	100
Marjory Henderson,	Trades' Maiden Inst., Edin.,.....	100
Ann Morrison,	Ed. Mer. Co. Ladies' Col. Sch.,	100
Ann W. Munro,	Ed. Mer. Co. Ladies' Col. Sch.,	100
Margaret S. Thomson,...	Private Classes,.....	100
Eliza M. Rodgers,	Montrose Academy,.....	100
Richard J. Angus,.....	Bathgate Academy,	100

ORDINARY.

Mary A. K. Branford,....	Ed. Mer. Co. Ladies' Col. Sch.,	80
Olivia V. Mackay,.....	Newington Academy, Edin.,.....	80
Mary C. Kay,.....	Ed. Mer. Co. Ladies' Col. Sch.,	80
Maggie Borthwick,.....	Trades' Maiden Institution,.....	80
Jane C. Fisher,.....	Park Place Institution,.....	80
Eliza Mowat,	Trades' Maiden Institution,.....	80
Eliza W. Greig,	Ed. Mer. Co. Ladies' Col. Sch.,	80
A. J. Leith,.....	Ed. Mer. Co. Ladies' Col. Sch.,	80
Isabella B. Pryde,.....	Ed. Mer. Co. Ladies' Col. Sch.,	80
Mary E. Sturrock,.....	High School, Arbroath,	80
William T. Prout,.....	High School, Arbroath,	80
Alice J. Argles,	Private Tuition,.....	80
Agnes H. Saunders,	Private Tuition,.....	80
Catherine M. M'Micking,	Glenfruin Ho. Sch., Helensbro.,	80
John Hughes,.....	{ Public School, St Andrew Square, Greenock,	80
David W. Mackenzie,....	{ Public School, St Andrew Square, Greenock,	80
Susan Robertson,	Home Park Sc., Broughty-Ferry,	80
John Hunter,.....	Bathgate Academy,	80
Mary Logan,	Madame Kunz's School, Edin.,	80
Bessie H. Smith,.....	Ed. Mer. Co. Ladies' Col. Sch.,	70
Mary Wilson,.....	Ministers' Daughters' College,...	70
Jane W. D. Gillon,	Ed. Mer. Co. Ladies' Col. Sch.,	70
Jane Robertson,	Ed. Mer. Co. Ladies' Col. Sch.,	70
Mary E. Kitsell,	Ed. Mer. Co. Ladies' Col. Sch.,	70
Charlotte Jamieson,.....	St Leonard's School, Banff,.....	70
Catherine Kynoch,.....	Dollar Institution,	70
Lizzie D. S. Maconchie,.	Montrose Academy,.....	70

EXTRA SUBJECTS—DRAWING—ORDINARY—*continued.*

NAME.	SCHOOL.	TOTAL MARKS.
David W. Fairweather, ..	High School, Arbroath,	70
M. E. Robertson,	Collegiate School, Greenock, ...	66
Jemima J. Francis,	Ed. Mer. Co. Ladies' Col. Sch.,	66
Jane Johnston,	Ed. Mer. Co. Ladies' Col. Sch.,	66
Jessie M. Morrison,	Newington Academy, Edin., ...	60
Emily M. Wilson,	Ed. Mer. Co. Ladies' Col. Sch.,	60
Elizabeth C. Robertson, .	Ed. Mer. Co. Ladies' Col. Sch.,	60
Agnes B. Turner,	Ed. Mer. Co. Ladies' Col. Sch.,	60
Janet Y. Brown,	Ed. Mer. Co. Ladies' Col. Sch.,	60
Agnes Osborne,	Ed. Mer. Co. Ladies' Col. Sch.,	60
Mary Cameron,	Montrose Academy,	60
Catherine J. Blackwood, .	Glenfruin Ho. Sch., Helensbro.,	60
Minnie Kynoch,	Dollar Institution,	60
John Wilson,	Bathgate Academy,	60
Mina Dunlop,	Mr Gibb's School, Edinburgh, ..	60
W. E. Fowler,	Mansion House Sch., Penrith, ...	60
Mary J. Bartholomew, ...	Earle Ho. Sch., Broughty-Ferry,	60
Martha A. Guthrie,	Home Park Sc., Broughty-Ferry,	60
Christina M. Baikie,	Ed. Mer. Co. Ladies' Col. Sch.,	60
Helen Drysdale,	Dollar Institution,	60

II. MUSIC.

HONOUR.

Annie F. Hardy,	Ed. Mer. Co. Ladies' Col. Sch.,	95
Elizabeth M'Call,	Ed. Mer. Co. Ladies' Col. Sch.,	94
Annabella H. Alexander,	Ed. Mer. Co. Ladies' Col. Sch.,	94
Maggie M. Hogg,	Dollar Institution,	92
Janet Renton,	Southfield House Sc., Auchter- muchty,	89
Helen Meldrum,	Ed. Mer. Co. Ladies' Col. Sch.,	86
Mary C. Watson,	Glenfruin Ho. Sch., Helensbro.,	84
Jessie M. H. Turner,	Ed. Mer. Co. Ladies' Col. Sch.,	81
Ella B. Baynham,	Glenfruin Ho. Sch., Helensbro.,	80
Charlotte A. Smith,	Private Study,	80
Dora M. Oliver,	Ed. Mer. Co. Ladies' Col. Sch.,	74
Barbara A. Gibson,	Ed. Mer. Co. Ladies' Col. Sch.,	67
Jessie H. Fletcher,	Glenfruin Ho. Sch., Helensbro.,	66
Mary M. Scott,	Ed. Mer. Co. Ladies' Col. Sch.,	61
Marjory Henderson,	Trades' Maiden Inst., Edin., ...	60
Elizabeth R. M. Porteous,	Private Study,	46
Agnes J. Fletcher,	Glenfruin Ho. Sch., Helensbro.,	41

EXTRA SUBJECTS—MUSIC—ORDINARY.

NAME.	SCHOOL.	TOTAL MARKS.
Lisa M. Kerr,	St Leonard's School, Banff,.....	96
Jane Robertson,.....	Ed. Mer. Co. Ladies' Col. Sch.,	93
Jessie N. Morrison,.....	Newington Academy, Edin.,...	90
Lizzie D. S. Maconchie, .	Montrose Academy,.....	90
Mary E. Hardy,	Ed. Mer. Co. Ladies' Col. Sch.,	90
Alice L. Stronach,	Ed. Mer. Co. Ladies' Col. Sch.,	86
Jane Johnston,	Ed. Mer. Co. Ladies' Col. Sch.,	86
Edith M. Argles,	Private Tuition,	86
Margaret Milne,.....	Ed. Mer. Co. Ladies' Col. Sch.,	83
Maggie Borthwick,.....	Trades' Maiden Inst., Edin.,....	83
Jeannie Macdonald,.....	Trades' Maiden Inst., Edin.,....	83
Jemima J. Francis,.....	Ed. Mer. Co. Ladies' Col. Sch.,	76
Frances Dickinson,.....	Grammar School, Campbellton,	76
M. Lily Smith,.....	Ed. Mer. Co. Ladies' Col. Sch.,	76
Mary Cameron,.....	Montrose Academy,.....	73
Elizabeth S. Bruce,	Cor. Stud., Mr M'Glashan's Cl.,	73
Elizabeth Turner,.....	Ed. Mer. Co. Ladies' Col. Sch.,	73
Emily M. Wilson,	Ed. Mer. Co. Ladies' Col. Sch.,	73
E. S. Johnston,.....	Mr Hunter's School, Edin.,.....	73
Mary J. Bartholomew, ..	Earle Ho. Sc., Broughty-Ferry,	70
Elizabeth C. Robertson, .	Ed. Mer. Co. Ladies' Col. Sch.,	70
Agnes S. Falconer,.....	Ed. Mer. Co. Ladies' Col. Sch.,	70
Eliza Mowat,	Trades' Maiden Inst., Edin.,	70
Jane C. Fisher,	Park Place Institution, Edin.,...	70
Mary Mackintosh,	Montrose Academy,.....	67
Jessie B. Anderson,	Earle Ho. Sch., Broughty-Ferry,	66
Maggie M. Bell,	Public School, Lockerbie,.....	66
Olivia V. Mackay,.....	Newington Academy, Edin.,	66
Jane W. D. Gillon,	Ed. Mer. Co. Ladies' Col. Sch.,	66
Maggie Parker,.....	Cor. Stud., Mr M'Glashan's Cl.,	63
Charlotte Jamieson,	St Leonard's School, Banff,.....	63
Mary Wilson,.....	Ministers' Daughters' Col., Edin.,	56
Eliza W. Greig,	Ed. Mer. Co. Ladies' Col. Sch.,	56

REGULATIONS AND CONDITIONS UNDER WHICH
EXAMINATIONS OF PUBLIC SCHOOLS
MAY BE CONDUCTED.

It shall be open to the Managers of Schools, on giving due notice to the Secretary, to present whole classes of their pupils for University Local Examinations. In such cases the following rules shall apply :—

I. Pupils shall be grouped in three divisions, according to their stage of advancement, the lowest division being restricted to the common subjects ; the intermediate division, to the subjects selected from the list for the Ordinary Certificate ; the highest division, to subjects selected from the list for the Honour Certificate.

II. The pupils thus examined shall not be included in the competition for Prizes, and shall not receive the special Certificates granted to others who pass.

III. The Fee shall be Five Shillings per Pupil.

IV. A special Report of Results shall be made to the School Managers ; and all who pass Latin, Greek, and Mathematics in the highest division, as indicated in Regulation I., shall be entitled to enter the University for the three years' curriculum in Arts.

IX.—STUDENTS' SOCIETIES AND CLUBS.

i.—ASSOCIATED SOCIETIES OF THE UNIVERSITY OF EDINBURGH.

This Association was instituted in 1833, and is a Union of Literary and Debating Societies. It is composed at the present date of four societies :—The Dialectic, Scots Law, Diagnostic, and Philosophical Societies. The following is the list of the Office-Bearers of the Association, and of the respective component societies :—

Honorary President—Professor Sir R. CHRISTISON, Bart., M.D., D.C.L. *Vice-Presidents*—The SENATUS ACADEMICUS of the University (*ex officio*). *Secretary*—CHARLES G. LAWSON, 34 George Square.

DIALECTIC SOCIETY, INSTITUTED IN 1787.

Office-Bearers for Session 1877-78.

Presidents—G. A. GIBSON, M.B., D.Sc., C. G. LAWSON, ERIC S. ROBERTSON, P. R. MACKAY, P. M. PLAYFAIR, M.A. *Secretary*—S. R. NICOLSON MACPHAIL. *Treasurer*—W. FERGUSON. *Delegates to the Council*—C. G. LAWSON, J. R. NICOLSON MACPHAIL.

This Society meets in the Societies' Hall every Friday Evening during the Winter Session, at 8 P.M., for the prosecution of Literary and Philosophical Composition, Criticism, and Debate.

SCOTS LAW SOCIETY.—INSTITUTED IN 1815.

Office-Bearers for Session 1877-78.

Presidents—JOHN DAVID SYM, M.A., JOHN L. HENDERSON, L.A., GEORGE L. MACFARLANE, B.A. *Secretary*—THOMAS M'NAUGHT, L.A. *Treasurer and Librarian*—A. WHITSON MYLES.

This Society meets every Monday Evening during the Winter Session, at 9 o'clock, in the Society's Hall, for the discussion of Legal and Literary Questions.

DIAGNOSTIC SOCIETY.—INSTITUTED IN 1816.

Office-Bearers for Session 1877-78.

Presidents—L. A. GARDINER, W. K. MORTON, A. MATHESON, M.A., J. DRUMMOND. *Secretary*—D. LYELL, M.A. *Treasurer*—J. REID. *Delegates to the Council*—P. W. SMEATON, S. B. ARMOUR, M.A.

This Society meets every Tuesday Evening during the Winter Session, at 9 o'clock, in the Associated Societies' Hall, for the purpose of debating and reading Essays.

PHILOSOPHICAL SOCIETY.—INSTITUTED IN 1871.

Office-Bearers for Session 1878-79.

Honorary Presidents—THE PRINCIPAL OF THE UNIVERSITY, PROFESSOR FRASER, PROFESSOR CALDERWOOD (*ex officio*),

Presidents—W. R. SORLEY, M.A., J. F. W. GRANT, M.A., J. KEMP, M.A., J. CHISHOLM, M.A. *Secretary*—A. MARTIN. *Treasurer*—J. CAIRNS. *Members of Committee*—D. L. CHRISTIE, J. W. MUDIE. *Delegates to the Associated Societies*—W. R. SORLEY, M.A., A. MARTIN.

This Society meets in the Associated Societies' Hall, every Wednesday Evening during the Winter Session, at 8 o'clock, for the prosecution of Philosophical Criticism and Investigation.

ii.—EDINBURGH UNIVERSITY ATHLETIC CLUB.

President.—Sir R. CHRISTISON, Bart., M.D., D.C.L. *Vice-Presidents*.—Professor BALFOUR; Professor CRUM BROWN; Professor ANNANDALE; Professor MACLAGAN; Professor MUIRHEAD; Professor TURNER; JOHN CHIENE, Esq. *Chairman*.—C. W. CATHCART. *Treasurers*.—E. and S. LIVINGSTONE. *Secretary*—G. S. WOODHEAD. *Committee*—R. BONE, H. H. JOHNSTONE, F. SCOUGAL, J. B. GREATHEAD, S. R. MACPHAIL, T. BURN MURDOCH, G. ATKINSON, G. E. SCHOLEFIELD, C. E. DOUGLAS, J. SMITH, E. WOODHEAD, G. H. TAYLOR.

The Club is open to all present and former students of the University. The Gymnasium is open daily, during the Winter Session, from 10 A.M. to 6 P.M., for all who become Members of the Club. Annual Sports are held in March and June, and Inter-University Sports in Connexion with the Club early in Spring. Annual Subscription, Ten Shillings and Sixpence.

The splendid new Cricket and Football Field at Corstorphine is now open. For further particulars, apply to the Treasurers, 57 South Bridge.

iii.—EDINBURGH UNIVERSITY BOAT CLUB.

HONORARY MEMBERS.—Principal Sir ALEXANDER GRANT, Bart., Professors BALFOUR, BENNETT, Sir R. CHRISTISON, Bart., KELLAND, MACLAGAN, MUIRHEAD, TYTLER, CRUM BROWN, &c.

COMMITTEE.—*Captain*, J. H. BALFOUR, W.S.; *Vice-Captain*, B. HALL BLYTH, C.E.; *Honorary Secretary*, G. M. THOMSON, W.S., 5 Darnaway Street; *Treasurer*, C. C. NISBET, W.S.; *Other Members of Committee*, W. WEIR, J. A. ROBERTSON, C.A.; and G. D. BALLINGALL.

The Club is composed of present or past Students of this and other Universities. Admission by ballot on the first and third Saturdays of each month, except August and September. Entry Money, One Guinea. Annual Subscription, payable on 1st February, Two Guineas.

The Boathouse of the Club is at Viewforth Bridge, Union Canal, and the Annual Races are held in June or July.

iv.—EDINBURGH UNIVERSITY MUSICAL SOCIETY.

Patron—H.R.H. THE DUKE OF EDINBURGH.

President—Professor Sir HERBERT OAKELEY, Mus. Doc. *Vice-Presidents*—Principal Sir ALEXANDER GRANT, Bart.; Sir ROBERT

CHRISTISON, Bart.; Professor MACLAGAN; Professor KELLAND; Professor RUTHERFORD; Professor CALDERWOOD; Professor HODGSON; and Professor FLINT. *Committee*—Messrs. J. A. STEVENSON; R. JAMIESON TORRIE; C. E. GREIG; ARCHD. MENZIES; W. RAINIE; W. T. BURN CALLENDER; J. W. M. BECK; ALFRED HARTLEY, W. MILWARD. *Treasurer*—J. SMALL, M.A. *Secretary*—

The Meetings of the Society are held weekly during the Winter Session in the Music Class Room, Park Place, and commence on the third Monday of November. Subscription, Five Shillings. An Elementary Class may also be formed if the members desire it. Subscription, Two Shillings and Sixpence extra.

v.—EDINBURGH UNIVERSITY RIFLE COMPANY SHOOTING CLUB.

Honorary President.—Sir ROBERT CHRISTISON, Bart. *President*.—Captain TURNER. *Vice-Presidents*.—Lieutenant ROBERTSON and Lieutenant SCOTT-LANG. *Secretary and Treasurer*—Lieutenant SCOTT-LANG. *Committee*—Lieutenant SCOTT-LANG; Sergeants C. W. CATHCART, F. RUSSELL, A. MATHESON, J. BAXTER; Corp. CAVERHILL, and Privates W. FERGUSON and MYRTLE.

The Club is open to members of No. 4 (University Co.) Q.E.R.B. Competitions are held weekly at Hunter's Bog, prizes being given at the end of the season for the best aggregate scores. Entrance Fee, Two Shillings and Sixpence. Annual Subscription, Two Shillings and Sixpence.

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This Society meets on alternate Wednesdays at 8 p.m. during the Winter Session, for the reading and discussion of papers, &c., on subjects relating to Chemistry.

During the Summer Session excursions will be made to chemical works, &c. For particulars apply to the Secretary at the Analytical Laboratory.

vii.—AGRICULTURE CLASS DISCUSSION SOCIETY. ESTABLISHED 1858.

This Society meets once a week during the Winter Session at 8 P.M., for the purpose of reading papers and discussing subjects bearing upon Agriculture and Rural Economy. All present and past Students of the Class are eligible as members. The President and Secretaries are elected at the commencement of the session. The subscription fee is Two Shillings and Sixpence.

viii.—EDINBURGH UNIVERSITY PHILOMATHIC SOCIETY.—INSTITUTED 1858.

Office-Bearers for Session 1878-79.

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This Club, which is open to all Students of the University, was instituted in 1876 for the purpose of obviating some of the disadvantages attendant on the system of residence in separate lodgings.

Besides other conveniences, it offers the means for a certain number of Students dining together daily at moderate expense; it is furnished with newspapers and periodicals; and in various ways it encourages social intercourse between Students of all Faculties.

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The object of the Association is to promote the moral and religious well-being of medical students. The work is carried on by means of a weekly meeting held in the Associated Society's Hall, and by other occasional meetings. Membership is open to all medical students who profess to desire to promote the objects of the Association. Annual subscription, 2s 6d.

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XI.—UNIVERSITY OF EDINBURGH BUILDINGS EXTENSION SCHEME.

SUMMARY OF PROPOSALS.

1st, To purchase the sites of Park Place and Teviot Row. (*This has been already effected at a cost of about £33,000.*)

2d, To erect in the immediate vicinity of the New Royal Infirmary complete Class-Rooms, Theatres, Laboratories, and Museums, with the latest scientific improvements, for the Medical Faculty of the University of Edinburgh.

3d, To re-organise the existing Class-Rooms of the College, and to improve them in direct adaptation to the wants of the several Professors in the Faculties of Arts, Law, and Theology.

4th, To provide increased and more convenient accommodation for the University Library.

5th, To erect a University Hall for the conferring of Degrees, the holding of Examinations, and for all public Academical Ceremonials.

6th, To improve to some extent the North Front of the present College Building.

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SUM REQUIRED FROM THE PUBLIC, £107,500.

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Brought forward,			£22,600	0	0

	Brought forward,	£22,600	0	0
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		£41,775	0	0
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Total up to 30th April 1878,	-	£98,669	0	0

ERRATUM.

CLASS OF COMMERCIAL LAW AND POLITICAL
ECONOMY.

For

5. Robert Thorburn, Leith High School,

Read

5. Robert Thorburn, Edinburgh Academy.

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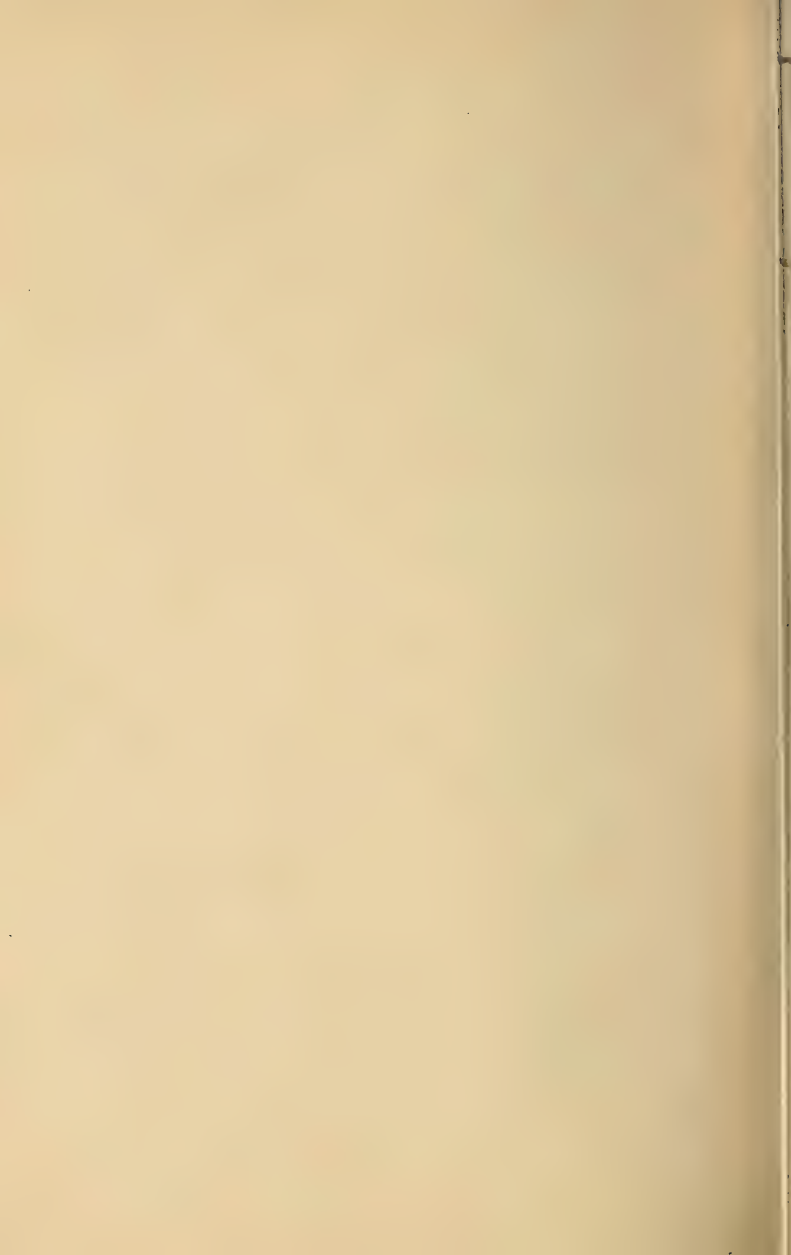
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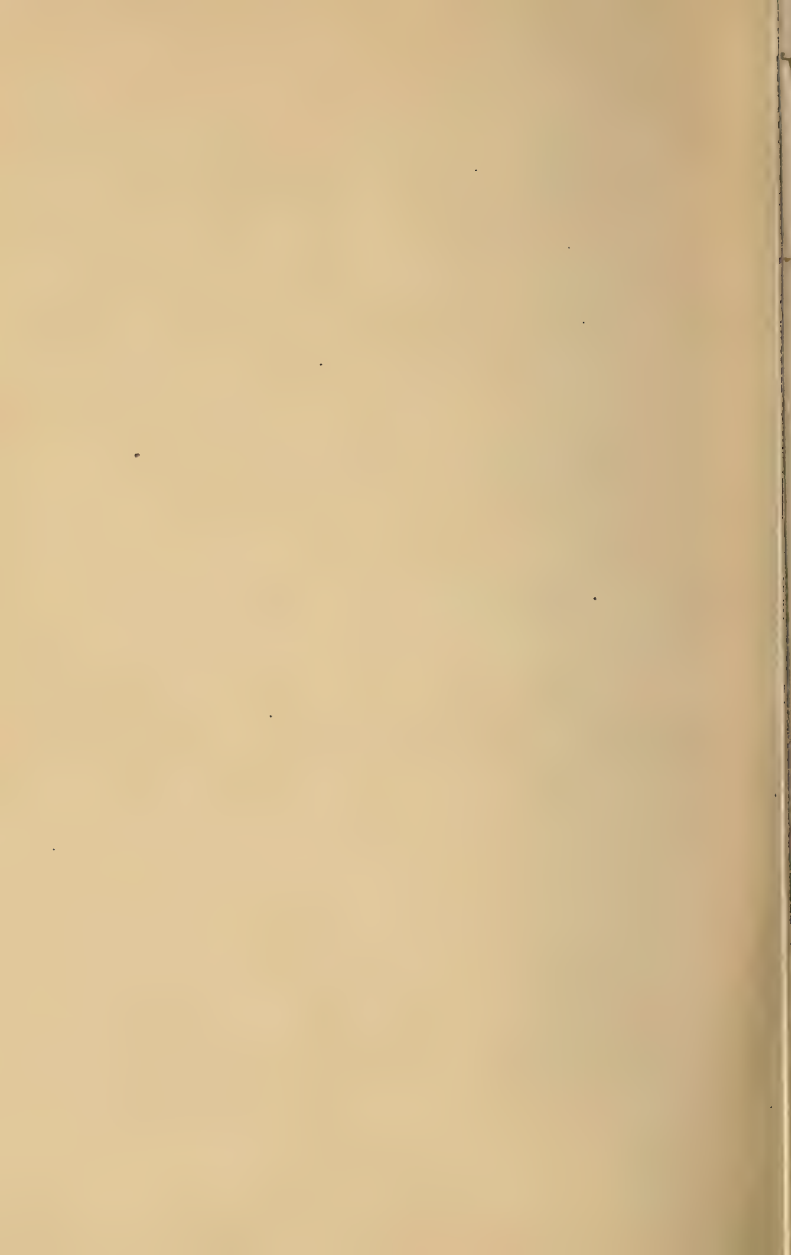


SUPPLEMENT

TO

The University Calendar.

1878-79.



Class Prize Lists.

SUMMER SESSION, 1878.

FACULTY OF ARTS.

I.—HUMANITY.

SENIOR TUTORIAL CLASS.

1. James Marwick, Edinburgh ; 2. Andrew Hutt, Fifeshire ; 3 and 4. R. H. Fisher, Orkney, and Charles H. Todd, Stirling—equal ; 5. W. L. Carrie, Arbroath ; 6. R. S. Simpson, Edinburgh ; 7. Lothian Gray, Edinburgh. *Honourable Mention*—1. Thomas Adams, Bo'ness ; 2. Jas. M. Ross, Forfarshire ; 3. C. H. Linton, Edinburgh ; 4. James F. Gardner, Poonah ; 5. Q. Wallace, Dumfriesshire.

LATIN PROSE COMPOSITION.—1 and 2. R. S. Simpson, and C. H. Todd—equal ; 3. James Marwick. *Honourable Mention*—R. H. Fisher.

PRIVATE READINGS.—1. W. L. Carrie ; 2. R. S. Simpson. *Honourable Mention*.—Eric Raeburn, Edinburgh ; W. Buchan, Hamilton.

HISTORY.—1. W. L. Carrie ; 2. James Marwick. *Honourable Mention*—Thomas Adams ; W. Buchan.

JUNIOR TUTORIAL CLASS.

1. Walter Young, Dundee ; 2. George Irving, Dumfriesshire ; 3. D. H. Brown, Linlithgow. *Honourable Mention*—1. C. G. Sörönsen, Leith ; 2. Hugh Miller Williamson, Edinburgh ; 3. James Gerrard, Edinburgh.

LATIN PROSE COMPOSITION.—George Irving. *Honourable Mention*—W. Young.

GEO. STRATHAIRN,

Assistant to the Professor of Humanity.

II. —GREEK.

SENIOR CLASS.

PRIZES FOR GENERAL EXCELLENCE.—1. James Marwick, Edinburgh ; 2. Lothian Gray, Edinburgh ; 3. D. M'Nish, Lochmaben ; 4 and 5. Robert H. Fisher, Orkney, and Charles H. Todd, Stirling—equal ; 6. T. Adams, Bo'ness ; 7. James Crichton, Dundee.

Class Prize Lists.

CERTIFICATES OF MERIT.—1. James F. Gardner, Poonah; 2. Eric Raeburn, Edinburgh.

PRIZES FOR GREEK PROSE COMPOSITION.—1. James Marwick; 2. James Crichton; 3. C. H. Todd.

PRIVATE READINGS.—1. James Marwick; 2. Thomas Adams; 3. Robert Fisher.

SPECIAL PRIZE FOR TRANSLATION OF A PASSAGE OF HERODOTUS.—C. H. Todd.

JUNIOR CLASS.

PRIZE FOR GENERAL EXCELLENCE.—D. H. Brown, Linlithgow.

CERTIFICATE OF MERIT.—Walter Young, Dundee.

GEORGE B. GARDINER,
Assistant to the Professor of Greek.

III.—MATHEMATICS.

TUTORIAL.

JUNIOR CLASS PRIZES.—1. A. T. Stanton, Edinburgh; 2. J. Nicoll, Forfar; 3. W. R. Hardie, Edinburgh.

CERTIFICATES OF MERIT.—1. James Gardner, Edinburgh; 2. James F. Whyte, Dundee; 3. T. A. Dickson, Edinburgh.

SENIOR CLASS PRIZE.—Frederick W. Stewart, Forfarshire, and W. H. Winter, Morayshire—equal.

R. K. GALLOWAY,
Assistant to the Professor of Mathematics.

IV.—NATURAL PHILOSOPHY.

TUTORIAL CLASS.

UNIVERSITY CERTIFICATES OF MERIT.—1 and 2. Joseph Nicoll, Dundee, and Andrew G. Scott, Edinburgh—equal. SECOND

CLASS CERTIFICATES OF MERIT: 3. D. M'Rae Todd, Edinburgh; 4. W. R. Hardie, Edinburgh; 5. J. A. Gordon, Newbattle.

PRIZE FOR THE BEST IN THE WRITTEN EXAMINATIONS.—Joseph Nicoll.

P. R. SCOTT LANG,
Assistant to the Professor of Natural Philosophy.

V.—ENGINEERING.

SURVEYING, LEVELLING, AND SETTING OUT.

MEDAL AND FIRST CLASS CERTIFICATE.—W. F. Gourlay, Dundee.

SECOND CLASS CERTIFICATES.—G. H. Davidson, Kinfauns, Perthshire; Colin C. M. Gibson, Dundee; James M'Nicoll, Arbroath; William Thorburn, Edinburgh; E. Touch.

FLEEMING JENKIN, *Professor.*

FACULTY OF LAW.

I.—CIVIL LAW.

WINTER AND SUMMER, 1877-78.

PRIZEMEN.—1. John F. Maclellan, M.A., Aberdeen ; 2. Edward T. Salvesen, M.A., Edinburgh ; 3. John Small, Dunfermline ; 4. Christopher N. Johnston, M.A., Edinburgh.

HONOURS OF THE FIRST CLASS.—The Prizemen are the following :—
5. George Law ; 6. George Newton.

HONOURS OF THE SECOND CLASS.—7. Robert Russell ; 8. George Lea Thorne, M.A. Edinburgh ; 9. Alexander M. Williamson, M.A., Aberdeen ; 10. Peter M. Macintyre, M.A., Edinburgh ; 11. Thomas Clapperton, M.A., Edinburgh ; 12. Samuel B. Armour, M.A., Edinburgh ; 13. John S. Oswald ; 14. John Macgregor ; 15. George Burn Murdoch ; 16. Robert J. Davidson, M.A., St Andrews ; 17. Andrew Vannan Begg, M.A., Edinburgh.

JAMES MUIRHEAD, *Professor*.

II.—SCOTS LAW.

CRIMINAL LAW.—PRIZEMEN.—John Prosser, Perthshire, and A. Watson M'Donald, Forfarshire—equal.

MERCANTILE LAW.—PRIZEMEN.*—1. W. K. Morton, Edinburgh ; 2. W. Clark, Perthshire.

GENERAL HONOUR LIST.

FIRST CLASS HONOURS.—1. John Prosser, Perthshire ; 2. John Wilson, Stirlingshire ; 3. William J. Duncan, Ross-shire.

SECOND CLASS HONOURS.—1. William Easson, Orkney ; 2. William Clark, Perthshire ; 3. A. Watson M'Donald, Forfarshire ; 4. W. K. Morton, Edinburgh ; 5. John Henderson, Caithness ; 6. Hay MacWatt, Clackmannanshire ; 7, 8, and 9. F. Brown Douglas, Edinburgh ; J. W. Moir, Clackmannanshire, and Charles Thomson, Clackmannanshire—equal ; 10 and 11. Alexander Sutherland, Caithness, and Hector Sutherland, Caithness—equal ; 12 and 13. James Forrest, Edinburgh, and James G. Millar, Lanarkshire—equal ; 14. James W. Whitelaw, Dumfriesshire ; 15 and 16. John M'Vean, Argyleshire, and William Murdoch, Aberdeenshire—equal ; 17. Donald Mackenzie, Ross-shire ; 18. James Duff, Renfrewshire ; 19. David Gibb, Perthshire ; 20. Donald Macleod, Caithness ; 21. Lockhart D. Corson, Ayrshire ; 22. David Buchan, Edinburgh ; 23. Andrew M'Fadyean, Wigtownshire ; 24. Alfred G. Millar, Perthshire ; 25. Thomas Henderson, Forfarshire ; 26. J. R. Wallace, Isle of Man ; 27. David Gowans, Forfarshire ; 28 and

* Mercantile law prizes not open to prizemen of Winter Session.

29. Thomas M'Duff, Edinburgh, and John Nicoll, Forfarshire—equal ; 30 and 31. James Bruce, Perthshire, and George P. Adamson, Edinburgh—equal.

NORMAN MACPHERSON, *Professor*.

III.—CONSTITUTIONAL LAW—HISTORY.

WRITTEN EXAMINATION.

1. Alexander Ure, M.A., Glasgow, *First Prize* ; 2. S. B. Armour, M.A., Edinburgh, *Second Prize. Mentioned with Honour*.—3. Robert Smith, Fifeshire ; 4. G. Lee Thorne, M.A., Edinburgh ; 5. P. M. M'Intyre, M.A., Edinburgh ; 6. Walter Gash, Hertfordshire ; 7. W. J. Rae, M.A., Edinburgh.

ESSAYS.

1. S. B. Armour, PRIZEMAN ; 2. Alexander Ure ; 3. Christopher N. Johnston, M.A., Edinburgh ; 4. J. Lea Thorne ; 5. W. J. Rae.
ÆNEAS J. G. MACKAY, *Professor*.

IV.—MEDICAL JURISPRUDENCE.

MEDALIST—John Lindsay Robertson, M.A., Ross-shire, 88·5 per cent.
FIRST CLASS CERTIFICATES OF MERIT.—James W. Whitelaw, Dumfries, 83 per cent. ; Alexander Ure, Glasgow, 81·5 per cent.

SECOND CLASS CERTIFICATES OF MERIT.—F. A. Brown Douglas, Edinburgh, and Thomas M'Gowan, Dumfries, 70 per cent.—equal ; James Forrest, Edinburgh, 68·5 ; George Law, Forfarshire, 64 ; James G. Miller, Glasgow, 59·5 ; J. B. Milne, Edinburgh, 55.

DOUGLAS MACLAGAN, M.D., *Professor*.

FACULTY OF MEDICINE.

I.—BOTANY.

- I.—For Herbarium of Phanerogamous Plants and Ferns collected within twenty miles of Edinburgh, between 15th July 1877 and 15th July 1878.

Patrick M. Playfair M.A., Abercorn (*Gold Medal and Certificate*).
This Herbarium contained 867 species and varieties, correctly named.

- II.—For Monthly Competitive Examinations, conducted in the Upper Library Hall of the University, by means of Written Questions and fresh Specimens of Plants without the aid of Books or Notes.

SENIOR DIVISION.

(Number of Competitors, 45. Available Marks, 200.)

- The following Competitors received each a University Medal and a Certificate in the FIRST CLASS OF HONOURS :—1. Arthur King, Norwich, and Diarmid Noel Paton, Edinburgh, 89 per cent.—equal ; 3. J. Theodore Richards, Herefordshire, 86.
- The following Competitors received each a Certificate in the FIRST CLASS OF HONOURS :—4. James A. H. Calder, Jamaica, and Herbert Dove King, Norwich, 78 per cent.—equal ; 6. P. de V. Moll, Cape of Good Hope, 77 ; 7. Norman Maclean, Portsmouth, and John Smith, M.A., Ayrshire, 76—equal.
- The following Competitors received each a certificate in the SECOND CLASS OF HONOURS :—9. Alexander Grant, Duthil, and R. H. Rozenzweig, Cape of Good Hope, 64 per cent.—equal ; 11. A. Cowan Guthrie, Ayr, 58 ; 12. Allen Thomson Sloan, Edinburgh, 57 ; 13. Robert Lorraine, Dumfries, 55 ; 14. James Alexander MacLaren, Edinburgh, 54 ; 15. James G. Houseman, Newcastle-on-Tyne, 51.

JUNIOR DIVISION.

(Number of Competitors, 211. Available Marks, 200.)

- The following Competitors received each a University Medal and a Certificate in the FIRST CLASS OF HONOURS :—1. Frank Grant Ogilvie, Aberdeenshire, 90 per cent. ; 2. Charles Low, Melbourne, and J. M'Fadyean, Wigtownshire, 88—equal ; 4. R. W. Philip, Glasgow, 86 ; 5. William Morrison, Comrie, and George C. Purvis, India, 85—equal.
- The following Competitors received each a Class Medal and a Certificate in the FIRST CLASS OF HONOURS :—7. George Cecil Dickson, Carnoustie, 84 per cent. ; 8. George J. Ranken, Portobello, 82.
- The following Competitors received each a Certificate in the FIRST CLASS OF HONOURS :—9. Archibald M'Kenzie, Natal, 79 per cent. ; 10. John Lockhart Gibson, Queensland, and D'Arcy W. Thompson, Edinburgh, 78—equal ; 12. William Hunter, Ayrshire, 77 ; 13. M. Bruce, Edinburgh, and Samuel George Campbell, Natal, 76—equal ; 15. John Bowie, Edinburgh ; Samuel Walker, West Calder ; and J. Mackie Whyte, Nairnshire, 75—equal.
- The following Competitors received each a Certificate in the SECOND CLASS OF HONOURS :—18. George E. Wilson, Birmingham, 74 per cent. ; 19. A. M. Stalker, Fife, and James Smith Watson, Aberdeen, 73—equal ; 21. B. P. J. Marchand, Cape of Good Hope, 70 ; 22. Alexander D. Macgregor, Ferintosh, 69 ; 23 and 24. John Liddell, Edinburgh, and James Steuart, Edinburgh, 66—equal ; 25. James Dunlop Dunlop, Edinburgh, 65 ; 26. Peter Baillie, Inverness, 64 ; 27. William H. Winter, Morayshire, 63 ; 28. James R. Laing, Melbourne, and Alexander Vander Byl, Cape

- of Good Hope, 60—equal ; 30. A. Stuart Bowman, Sydney, 57 ; 31. A. Murray Neethling, Cape Colony, 56 ; 32. Arthur Hare, Darlington, and William Milne, Inverurie, 54—equal ; 34. J. O. Morrison, Linlithgow, 53 ; 35. Charles Stewart, Mid-Lothian, 52.
- III. The Prize of Two Guineas, offered by George A. Panton, Esq., Birmingham, for the Student who stood highest in the Competitive Junior Examination was awarded to Frank Grant Ogilvie, Aberdeenshire.

N.B.—The Panton Prize of Two Guineas will be again awarded at the end of the Summer Session, 1879.

- IV. For a Series of Dried Specimens and Dissections illustrating Twelve Natural Orders, James Steuart, Edinburgh.
- V. The Prize of Two Guineas, offered by Dr Gilchrist, Dumfries, for the best and approved Essay on the Relations between Plants and Soils, as influencing their Geographical Distribution in Britain, has not been awarded, as the Essay sent in was not considered of sufficient originality. A Certificate of Merit, however, has been granted to the author, F. W. Reid, Richmond.
- VI. Prize in the Junior Division for Dissections of the Flowers of the following Plants :—*Ranunculus* (any species) ; *Wallflower* (or any other Cruciferous plant) ; *Garden Pansy* ; *Pea* or *Bean* ; *Geranium* or *Pelargonium* ; *Aconite* or *Larkspur* ; *Papaver* (any species) ; *Lilium* (any species).

PRIZEMEN.—1. Francis W. Grierson, Dumfries ; 2. James Steuart, Edinburgh ; 3. Samuel Walker, West Calder.

CERTIFICATES OF MERIT, ARRANGED ALPHABETICALLY.—Alister Stuart Bowman, B.A., Sydney ; Alf. James Neale, Leicester ; Robert W. Philip, Glasgow ; William C. Scholtz, Cape of Good Hope ; James Stuart, Inverness-shire ; R. T. Sutherland, Natal ; D'Arcy W. Thompson, Edinburgh ; Philip Egerton Warburton, Albany, N.A.

CLASS OF VEGETABLE HISTOLOGY AND PRACTICAL BOTANY.

- I.—For a series of 24 Microscopical Preparations illustrating the Root, Stem, Leaves, and Flowers of *Valeriana officinalis*.

PRIZEMEN.—Thomas Bancroft, Brisbane, Australia.

CERTIFICATE OF MERIT.—Robert Lawrie, Derby.

- II. For 24 Microscopical Preparations illustrating the Forms and Structure of Stomata :—1. Howard Bendall, London ; 2. Thomas Bancroft, Brisbane, Australia—*University Medals* ; 3. John R. S. Roberston, Northumberland—*a Prize*.

CERTIFICATES OF MERIT ALPHABETICALLY ARRANGED.—William Brfd, Yorkshire ; Bernard Langley Mills, Somerset ; George V. Rohan, Mauritius ; John H. Williams, Flintshire.

STATISTICS OF THE BOTANICAL CLASS FOR 1878.

Number of Pupils, 365 ; of these 326 were medical students, 36 general students, and 3 pharmaceutical students. Students of first year,

299; advanced students, 66. Pupils of the Class of Vegetable Histology and Practical Botany, 47.

Number of Lectures, 59; Histological and Practical Demonstrations, 43; Competitive Examinations, 2; Excursions, 10.

The following were the Excursions:—1. Longniddry and Prestonpans. 2. Roslin and Polton. 3. Kinghorn and Burntisland. 4. Balerno and Pentland Hills. 5. North Berwick and Tantallon. 6. Perth and Almond Bank. 7. Beattock and Moffat. 8. South Queensferry, Winchburgh, and Linlithgow. 9. Murthly and Stenton. 10. Killin, Bridge of Lochay, Ben Lawers, Cham-a-Creagh.

Number of Species and Plants collected during the Excursions:—Phanerogamous Plants, 590; Ferns and their Allies, 34; other Cryptogams, 100; Total, 720.

Number of fresh specimens of Plants used for Class purposes during the Session, 47,280.

Number of miles travelled by railway, steamboat, and walking, 733. The number of students who attended the Excursions was 216; and the number at each Excursion varied from 21 to 130. Total expense of the trips, £3, 3.

PRIZES OFFERED IN SUMMER SESSION 1879.

I. A Gold Medal for the best and approved Herbarium collected from the fields and woods within Twenty Miles of Edinburgh, between 15th July 1878 and 15th July 1879, under the following conditions:—The collection to consist of Phanerogamous Plants and Ferns arranged according to the Natural System, and to be accompanied by a numbered list of species arranged according to Balfour and Sadler's *Flora of Edinburgh* (2d edition). The name of each plant, its habitat, and the date and day of collection, are to be stated on the paper on which the specimen is preserved—the paper being similar to that used in the Herbarium at the Royal Botanic Garden. The Prize Herbarium must contain not less than 700 correctly named species. In judging of the respective merits of the collections, attention will be paid not merely to the number of the species, but also to the condition of the specimens, and the mode in which the plants are preserved and dried.

The Herbarium must be sent to the Royal Botanic Garden on or before 15th July 1879, with the name of the competitor, and a declaration to the effect that the plants in the collection have been gathered by himself in the localities mentioned, within the stated period (1878-79), and named by himself.

II. Prizes will be given for large Models (similar to those in the Museum at the Botanic Garden), illustrating the Structure of Orders, Genera, Species, or of Parts of Plants. The competitor's attention may be directed to Cyperaceæ, Mosses and other Cryptogamic Plants, the arrangement of Leaves and of the Parts of the Flower, the Structure

of the Pistil, Ovaries, Ovules, Fruits, and Seeds, and the kinds of Placentation.

Facilities will be given for getting specimens from the Botanic Garden for making Typical Models. To be sent to the Garden on or before 15th July 1879.

III. A Prize will be given for the best and approved Series of Specimens and Dissections illustrating any twelve Natural Orders. To be sent to the Garden on or before 15th July 1879.

IV. A Prize will be given for the best and approved Essay on any subject in Vegetable Physiology. The author is expected to make original observations and experiments. These may be conducted in the Botanic Garden. To be given in not later than 15th July 1879.

V. A Prize of Two Guineas is offered by Dr Gilchrist, Dumfries, for the best and approved Essay on the Relation between Plants and Soils, as influencing their Geographical Distribution in Britain. To be given in not later than 15th July 1879.

VI. Prizes will be given, both in the Senior and Junior Divisions of the Class, to those who acquit themselves in a satisfactory manner at the Competitive Examinations. Those who gain 75 per cent. or more of the available marks will receive a Certificate in the First Class of Honours. Those who gain 50 per cent. or more, but less than 75 per cent. of the available marks, will receive a Certificate in the Second Class of Honours. These marks, when 80 per cent. or more, are also taken into account in the Examinations for Degrees in Science (see *University Calendar*, 1878-79, p. 131).

A limited number of University Bronze Medals will be given to those who obtain the highest number of marks in the Competitions.

VII. A Prize will be given to the Junior Division of the Class for Dissections executed during the course. The nature of the Dissections to be intimated in May or June 1879.

VIII. Prizes will be given in the Class of Vegetable Histology and Practical Botany for Microscopical Preparations and Dissections of Plants. The subjects for competition will be announced when the Class meets.

IX. A Prize of Ten Guineas is offered by the Botanical Society for the best and approved Essay on the Reproduction of Lycopodiaceæ, to be competed for by Students who have attended the Botanical Class during at least one of the three years preceding the award, and have gained honours in the Class Examinations.

X. A similar Prize of Ten Guineas is offered, through the Council of the Botanical Society, by Charles Jenner, Esq., for the best and

approved Essay on the Structure and Reproduction of the Frondose and Foliaceous Jungermanniaceæ.

J. H. BALFOUR, M.D., *Professor*.

II.—NATURAL HISTORY,

Special Award for Essays on the Anatomy of the Teleostean Fishes.

The Award will be made at the commencement of the Session 1878-79.

Special Award for a Series of Diagrams illustrating the relative position of parts in the members of the different groups of the Animal Kingdom.—1. William A. Herdman, Edinburgh, *Gold Medal*; 2. Donald M. Stevenson, Clackmannanshire, *Silver Medal*.

COMPETITIVE EXAMINATIONS.—SENIOR DIVISION.

FIRST CLASS HONOURS.—1. Diarmid Noel Paton, Edinburgh, 84 per cent.—*Medal*; 2. Donald M. Stevenson, Clackmannanshire, 82—*Medal*; 3. Barclay J. Baron, Plymouth, 80—*Medal*; 4. Camille Delépine, Paris, 78—*Medal*; 5. Herbert Dove King, Norwich, 76. SECOND CLASS HONOURS.—6. D. Marinus Jones, Bonn, 71; 7. Ogilvie Grant, Inverness, 69; 8. Archibald C. Guthrie, Ayr, 68; 9. Allen Thomson Sloan, Edinburgh, 67; 10. Daniel Stalker, M.A., Leven, 64; 11. David Welsh, Dumfries, 63; 12. A. F. Russell, Argyll, 62; 13. Charles Kennedy, Edinburgh, and John M. Macfarlane, Kirkcaldy, 61—equal; 15. Francis Charlesworth, London, 58; 16. Herbert H. Ashdown, Northampton, 55.

JUNIOR DIVISION.

FIRST-CLASS HONOURS.—1. Howard Bendall, London, 81 per cent., *Medal*; 2. Frank Grant Ogilvie, Monymusk, 80, *Medal*; 3. James A. L. Calder, Jamaica, 79, *Medal*; 4. William Hunter, Ballantrae, and William Morrison, Comrie, 76, *Medals*—equal; 6. John M'Fadyean, Wigtownshire, 75.

SECOND-CLASS HONOURS.—7. George Cecil Dickson, Carnoustie, 74 per cent.; 8. C. W. Maxwell Mullar, Edinburgh, and Alex. M. Stalker, M.A., Leven, 73—equal; 10. J. Mackie Whyte, M.A., Nairnshire, 72—equal; 11. Allister D. Bowman, Sydney, and R. W. Philip, Glasgow, 71—equal; 13. Archibald M'Kenzie, Natal; George C. Purvis, India; and James Smith Watson, Aberdeen, 70—equal; 16. D. M'Ewan Morgan, Edinburgh, 68; 17. William Cotton, Edinburgh, 67; 18. Arthur W. Hare, Darlington, and David Treharne, Wales, 66—equal; 20. E. B. C. Walker, Devon, and Edward Young, Perth, 65—equal; 22. M. Bruce, Edinburgh; A. Murray, Neethling, Cape Colony; and W. F. Thomson, Launceston, 64—equal; 25. W. B. Macdonald, Edinburgh, and B. P. J. Marchand, Cape of Good Hope, 63—equal; John Bowie, Edinburgh; R. Mead, Whitby; and Ernest F. Neve, Brighton, 62—equal; 30. William Low, Burntisland; Hugh M. Percival,

Bengal; P. E. Warburton, Australia; and J. J. A. Williams, Flintshire, 61—equal; 34. George E. Wilson, Birmingham, and F. W. Grant, Perthshire, 60—equal; 36. J. Dunlop Dunlop, Edinburgh; William Milne, Inverurie; and Alexander Vanderbyl, Cape of Good Hope, 58—equal; 39. W. L. Goodwin, New Brunswick, and A. Valentine, Stonehaven, 58—equal; 41. W. W. Herbert, North Wales, 57; 42. John Lockart Gibson, Queensland, 56; 43. S. G. Campbell, Natal, 55; 44. Walter B. Garvine, Ceylon, and 45. W. Murray Leslie, Ross-shire, 54—equal.

PRACTICAL ZOOLOGY CLASS.

COMPETITIVE EXAMINATIONS.—FIRST-CLASS HONOURS.—1. Ralph Stockman, 85 per cent., *Medal*; 2. Frank Grant Ogilvie, Monymusk, 76.

SECOND-CLASS HONOURS.—3. Herbert Dove King, Norwich, 68 per cent.

C. WYVILLE THOMSON, *Professor*.

III. PRACTICAL CHEMISTRY.

FIRST CLASS HONOURS.—R. D. Prichard; G. J. Renwick; P. Standen; J. Lamont; G. C. Dickson—*Medalists*; W. Bird; J. Bowie; W. E. Bradley; S. Johnstone; D. Noel Paton; J. R. S. Robertson; G. V. Rohan; E. Vardon; D. Welsh; W. Thyne; D. Treharne; F. W. Matheson; W. M. M'Pherson; J. R. Ellis; J. M. Ferguson; R. H. Fish; F. W. Grant; W. W. Herbert; P. de V. Moll; A. M. Moore; S. Mackew; G. K. Paterson; A. T. Sloan; R. H. Blaikie; R. Bowes; D. Cassels; C. J. Couper; D. R. Dobie; D. Hepburn; R. T. Lorraine; C. Low; A. M'Cormick; W. B. M'Donald; E. O. Macniven; R. H. Rozenzweig; S. W. Smith; C. Stewart; J. Stuart; E. B. C. Walker; J. S. Watson; W. B. Benjafield; H. A. Daw; D. R. Hamilton; R. H. Munro; B. J. Baron; J. Dalgleish; A. Grant; T. C. Meggison; N. Maclean; J. H. Williams; H. H. Ashdown; T. R. Bailey; J. H. Balfour; W. T. Boddy; A. K. Christie; J. L. Gibson; C. Kennedy; H. C. Robson; H. A. Wilson.

SECOND CLASS HONOURS.—J. C. Dick; T. Duncan; W. Davidson; L. R. Gray; W. R. Hill; J. H. A. Laing; G. R. Nelson; E. H. M. Stancomb; R. Stockman; P. Baillie; T. Borthwick; W. Bryden; F. Craig; R. Fearn; G. W. Galletly; A. T. Stanton; D. W. Thomson; F. Charlesworth; J. M'Pherson; D. M. Stevenson; D. Stalker; R. C. Bennett; C. E. Allan; J. Bowes; H. L. Grant; J. G. W. James; D. Stalker; W. Taylor; D. R. M'Arthur.

ALEX. CRUM BROWN, M.D., *Professor*.

IV.—PRACTICAL PHYSIOLOGY.

FIRST CLASS CERTIFICATES AND MEDALISTS. 1. John Thomson, Edinburgh; 86 per cent. ; 2. W. J. Sinclair, Kirkwall, 85.

FIRST CLASS CERTIFICATES.—G. A. Atkinson; Wylam-on-Tyne, 79 per cent. ; Thomas Brown, Dunblane, 77 ; W. A. Herdman, Edinburgh, 74 ; J. R. Logan, Ross-shire, 73.

SECOND CLASS CERTIFICATES.—Alexander M'Cormick, Argyllshire, 70 per cent. ; D. Lindsay, Lanarkshire, 69 ; J. W. Fraser, Hull, 67 ; W. Y. Orr, Elgin, 63 ; W. T. Barrie, Liddesdale, 62 ; W. A. Macleod, Kilmarnock, 57.

W. RUTHERFORD, M.D., *Professor*.

De Burgh Birch, M.B. ; John Haycraft, M.B., Demonstrators.

The following gentlemen acted as Assistant Demonstrators :—R. H. Whitwell, India ; T. C. Larkin, Newcastle-on-Tyne ; James Limont, Alnwick ; Frederick Cox, Edinburgh ; H. C. Male, Birmingham ; F. J. Baidon, Newcastle, Staff ; D. Hogan, Cape of Good Hope ; H. H. Aitchison, Northumberland ; Thomas Aitchison, Northumberland.

V.—MEDICAL JURISPRUDENCE.

MEDALISTS.—1. James Mackenzie, Perthshire, 88·5 per cent. ; 2. Thomas Marshall, M.A., Edinburgh, 84.

FIRST CLASS CERTIFICATES OF MERIT.—J. Francis Sutherland, Caithness, 82 per cent. ; Charles Begg, Edinburgh, 81 ; Alexander H. Barbour, Edinburgh, 80·5 ; Robert Robertson, Dumfries, 77·5 ; William G. Murray, Edinburgh, 77.

SECOND CLASS CERTIFICATES OF MERIT.—E. Owen Price, North Wales, 71 per cent. ; Charles Stuart, Chirnside, 70 ; Wm. Clement Evans, Carmarthenshire, 69·5 ; Archibald H. Veitch, Edinburgh, 67·5 ; Alexander Valentine, Stonehaven, 64·5 ; Robert S. Dunlop, Ayr, 62 ; Archibald M. Megginson, Yorkshire, 56·5 per cent. ; R. G. S. Bell, Jamaica, 50.

DOUGLAS MACLAGAN, M.D., *Professor*.

VI.—OPERATIVE GYNECOLOGY AND PRACTICAL MIDWIFERY.

FIRST CLASS HONOURS AND FIRST PRIZE—Basil Morison, India, and James Mackenzie, Perth, 86 per cent.—equal.

SECOND CLASS HONOURS.—Hamilton Wyllie, Edinburgh, 65 per cent. ; H. G. L. Wortabet, Syria, 60.

A. R. SIMPSON, M.D., *Professor*.

VII.—PRACTICAL PATHOLOGY.

FIRST CLASS CERTIFICATES.—1. W. J. Sinclair, 85 per cent.—*Medal* ; 2. John Thomson, 79—*Medal* ; 3. B. G. Morison, 78—*Medal* ; 4. J. W. Fraser, 75.

SECOND CLASS CERTIFICATES.—5. G. E. Piercz, 73 per cent. ; 6. Wm. Young, 69 ; 7. T. P. A. Stuart, 67 ; 8. R. A. Lundie, 66 ; 9. P. Davidson, 64 ; 10. R. M'Naught, 61 ; 11. P. S. Chauvin, 60 ; 12. R. O'Brien, 56 ; 13. W. T. Barrie, and C. W. C. Luckhoff, 55—equal.

W. R. SANDERS, M.D., *Professor.*

VIII.—MEDICAL PSYCHOLOGY AND MENTAL DISEASES.

THE GILCHRIST PRIZE.—Alexander Bruce, Aberdeenshire.

FIRST CLASS CERTIFICATES OF MERIT.—James Hunter, Carlaverock, Dumfriesshire, and Andrew Mungle, Edinburgh—equal.

SECOND CLASS CERTIFICATES OF MERIT.—Hamilton Wylie, Edinburgh ; Stephen Paul Jansy, Ceylon.

T. GRAINGER STEWART, M.D., *Professor.*

IX.—PRACTICAL MATERIA MEDICA AND PHARMACY.

SENIOR DIVISION.

FIRST CLASS HONOURS.—William Young, Stirlingshire, 96 per cent.—*Medalist* ; G. W. W. Ashdown, Northampton, 78·3 ; C. Cochran Dickson, Galashiels, 75.

SECOND CLASS HONOURS.—Peter M'Laren, M.D., Canada, 68 per cent. ; David Lindsay, Lanarkshire, 67.

JUNIOR DIVISION.

FIRST CLASS HONOURS.—James Wm. Fraser, Hull, 87 per cent. ; Ronald Clark, Port-Glasgow, 85·3—*Medalists.*

SECOND CLASS HONOURS.—W. J. Sinclair, Kirkwall, 70·3 per cent. ; John Thos. Jones, Holywell, 68 ; Geo. Birrell, Midlothian, 67 ; Josias M. Hoffman, South Africa, 66 ; Henri Lorans, Mauritius, 63·5 ; Alex. M'Cormack, Argyllshire, 60 ; George S. Pullon, Barnsley, 56·3 ; George Paterson, Cape of Good Hope, 53·5 ; A. Gelebian, Smyrna, 51·6.

The following gentlemen acted as Class Assistants ;—Frank C. Larkin, Newcastle-on-Tyne ; James P. Aitchison, Blackburn ; Peter M'Laren, M.D., Canada.

THOMAS R. FRASER, M.D., *Professor.*

Graduation in Law.

The subjects for Examination will be the same as those announced in the Calendar for 1878-9.

The next Examination in Law will commence on the last Monday in June 1879.

By a resolution of the Law Faculty, Candidates may be examined either for the degree of LL.B. or L.B. in any two—but not less than two—of the subjects of examination at the same time.

The Law Fellowship of £100 a year for three years, to be awarded in October 1879, is open to all Graduates in Law who graduate at the examination in June 1879, upon the conditions stated in the Calendar for 1878-9, p. 360.

The Forensic Prize will be awarded to the Candidate who passes the best examination in four subjects at the examination in June 1879.

Candidates who are not Graduates in Arts must present themselves for the preliminary examination in the necessary subjects at the Arts Pass Examination, either in October 1878 or in April 1879. A special examination will be fixed for Candidates who desire to pass in French or German.

By an Act of Sederunt of the Court of Session of 20th July 1878, the degree of L.B. is now received as an equivalent for the whole examinations required to be passed prior to admission by Law Agents, with the exception of the examination in Court of Session and Sheriff Court practice, which must still be passed before the Law Agents Examiners.

Æ. J. G. MACKAY,
Dean of the Faculty of Law.

THE HONORARY DEGREE OF LL.D.

1st August 1878.

James Risdon Bennett, M.D. (Edin.), F.R.S., President of the Royal College of Physicians, London.

Sir Joseph Fayrer, M.D. (Edin.), K.C.S.I., F.R.S.

John Richard Green, M.A. (Oxon), Author of the "History of the English People," &c.

Joseph Lister, M.B. (Lond.), F.R.S., Professor of Clinical Surgery, King's College, London.

William Macdonald, M.A. (Edin.), Rector-Elect of the High School of Dunedin, Otago.

DEGREE OF LL.B.

1st August 1878.

James Reid, M.A. (Edin.), Scotland.

Alexander Stewart Duff Thomson, B.A. (New York), America.

DEGREE OF B.L.

1st August 1878.

John Ferguson M'Lennan, M.A. (Aberd.), Scotland.

The Forensic Prize was awarded to
JOHN FERGUSON M'LENNAN, M.A. (Aberd.).

Graduation in Medicine.

GRADUATES IN MEDICINE.—1ST AUGUST 1877.

LIST OF CANDIDATES WHO RECEIVED THE DEGREE OF DOCTOR OF MEDICINE, THE DEGREE OF BACHELOR OF MEDICINE, AND THE DEGREE OF MASTER IN SURGERY, IN THE UNIVERSITY OF EDINBURGH ON THURSDAY, AUGUST 1, 1878.

THE DEGREE OF DOCTOR OF MEDICINE UNDER THE NEW STATUTES, WITH THE TITLES OF THE THESES.

*** *Those who have obtained Prizes for their Dissertations.*

** *Deemed worthy of competing for the Dissertation Prizes.*

* *Commended for their Dissertations.*

Adams, George Norris, England, M.B. of 1872. Diphtheria and its relation to Croup.

Aitchison, George Heron, Scotland (M.A., Edin.), M.B. and C.M. of 1872. The Pulse Rate.

Anderson, Thomas, Scotland, M.B. and C.M. of 1873. Alcohol and Alcoholism.

** Beatson, George Thomas, Ceylon (B.A., Cantab.), M.B. and C.M. of 1874. Functions of the Cortex Cerebri, with Investigations.

5** Brown, John James Graham, Scotland, M.B. and C.M. of 1875. Chronic Lead Poisoning.

* Chavasse, Thomas Frederick, England, M.B. and C.M. of 1876. The Operative Treatment of Bronchocele.

* Crawford, Christopher, Scotland, M.B. and C.M. of 1874. Physiological and Therapeutic Action of Alcohol.

* Davis, William Morriston, England, M.B. and C.M. of 1873. Hæmorrhoids.

* Dobson, Henry, England, M.B. and C.M. of 1876. Catarrhal Pneumonia as a Cause of Phthisis Pulmonalis.

10 Edgar, James Walker, Scotland, M.B. and C.M. of 1874. Rheumatism.

Edward, Alexander Airth, Scotland, M.B. and C.M. of 1873. On some points in the Management of Labour.

*** EWART, JAMES COSSAR, Scotland, M.B. and C.M. (with Second Class Honours) 1874. The Life-History and Pathological Relations of Bacillus Anthracis.

* Ferens-Oliver, John, England, M.B. and C.M. of 1875. Diseases of the Rectum.

* Garson, John George, Orkney, M.B. of 1875. Displacement of the Bladder and Peritoneum in the Male by Distension of the Rectum.

15* Hamilton, John Rogerson, Scotland, M.B. and C.M. of 1875. Rubeola.

- * Jameson, George Herbert, England, M.B. of 1875. Belladonna Poisoning.
- Johnson, John Frederick, Ireland, M.B. and C.M. of 1875. Urethral Blennorrhagia.
- ** Kirkwood, George, Scotland, M.B. and C.M. (with Second Class Honours) 1875. On the value of certain Dental Malformations in the diagnosis of Hereditary Syphilis.
- * M'Caskie, Norman, Scotland, M.B. and C.M. of 1871. Sanitation in the Rural Districts.
- 20 Mackenzie, Roderick Fraser, Scotland, M.B. of 1870. Observations on some Dangers incident to Infant Life, &c.
- *** MORISON, ALEXANDER, India, M.B. and C.M. of 1872. On some points in the Pathology and Therapeutics of Organic and Functional Disease of the Pulmonary and Tricuspid Valves of the Heart.
- Purdon, Thomas Eadie, Scotland, M.B. and C.M. of 1874. Scrofula, and its allied Diatheses.
- *** ROY, CHARLES SMART, Scotland, M.B. and C.M. of 1875. The Influences governing the work of the Heart.
- Sawdon, Frederick John, England, M.B. and C.M. of 1872. Chronic Hydrocephalus.
- 25* Symons, Mark Johnston, Scotland, M.B. and C.M. of 1875. Traumatic Cataract.
- Thomas, Abraham Garrod, Wales, M.B. and C.M. of 1876. On the Effects of Fright.
- Vereker-Bindon, William John, Cape of Good Hope, D.Sc. (Edin.), M.B. and C.M. of 1875. Observations on Infantile Diarrhoea.
- *** WALLER, BRYAN CHARLES, England, M.B. and C.M. of 1876. Interstitial Nephritis.
- Watters, George Thomas Brown, Scotland, M.B. and C.M. of 1875. Functional Cardiac Disorders.
- 30 Young, Walter Wilson, Scotland, M.B. and C.M. of 1865. On Diseases of the Joints.

THE DEGREES OF BACHELOR OF MEDICINE AND MASTER IN SURGERY.

Small CAPITALS indicate that the Candidate has passed the Examinations with First Class Honours.

Italics indicate that the Candidate has passed the Examinations with Second Class Honours.

Adam, George Rothwell Wil-
son, England.
Anderson, John, Ireland.
Ashton, James Thornhill, Eng-
land.

Atkinson, George Thomas An-
drew, India.
5 Babington, Howard Fleetwood
India.
Badger, William, Scotland.

- Barclay, William Hugh Mac-
kenzie, Scotland.
Bedford, Hermanus Christian
van Zyl, Cape of Good
Hope.
BEGG, CHARLES, Scotland.
10 Bridger Adolphus Edward, Eng-
land.
Burness, Frederick, Scotland.
Calder, William Johnson,
Jamaica.
Campbell, James, Scotland.
Carruthers, William, Scotland.
15 Caverhill, Thomas Francis
Spittal, Scotland.
Cathcart, Charles Walker, M.A.
(Edin.), Scotland.
Chisholm, John Merritt, M.A.
(Edin.), Scotland.
Christian, Hotham George,
India.
Clarke, Henry Joy, England.
20 Clow, William Fraser, Scotland.
Collie, David, Scotland.
Crombie, James, Scotland.
Cunningham, James Banner-
man, Scotland.
Dalzell, Pulteney William,
India.
25 Davison, James Thomas
Richard, La Plata.
Dickinson, George Dixon,
England.
Dixon, Craig, Australia.
Dudgeon, John Matthew,
Scotland.
Duncan, George, Scotland.
30 Duncan, James Newton, India.
Earle, Leslie Meredith, Eng-
land.
Edmond, William Richardson,
Wales.
Foster, Samuel Walker, Eng-
land.
Fraenkel, Henry Siegfried,
Cape of Good Hope.
35 Fraser, Frederick William
Dyce, M.A. (Edin.), Scot-
land.
GUILLEMARD, BERNARD JAS.,
England.
Gwynn, Charles Henry, Eng-
land.
Handford, Henry, England.
HAY, MATTHEW, Scotland.
40 Hendry, Alexander, M.A.
(Aberd.), Scotland.
Hope, Edward William, Eng-
land.
Hunter, James, Scotland.
James, Richard, India.
Jansz, Stephen Paul, Ceylon.
45 Jardine, Adam, Scotland.
Jones, John Ellis, Wales.
King, Henry William, England.
Limont, William, M.A. (Edin.),
England.
Linde, Theodor, Rotterdam.
50 Lorraine, Richard Bell, Scot-
land.
Low, Alexander Bruce, Scot-
land.
M'Kenzie, James, Scotland.
MacIennan, Donald Urquhart,
Scotland.
M'Clintock, James, Scotland.
55 Macnaughton, William Alex-
ander, M.A. (Edin.), Scot-
land.
Macphail, Samuel Rutherford,
Scotland.
Marshall, Thomas, M.A.
(Edin.), Scotland.
Megginson, Archibald Megget,
England.
Millard, William Wright, Eng-
land.
60 Miller, James Duff, Scotland.
MORISON, BASIL GORDON,
India,
Murray, William George, Scot-
land.
Pegler, Louis Wellesley Hem-
mington, England.

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| <p>65 Ráy, Nanda Kumár, India.
Reid, James More, Scotland.
Reid, William Swanston
Spence, West Indies.
Rennie, Francis, Scotland.
Richards, Thomas, England.
Ritchie, Daniel, Scotland.
70 Robertson, John Brown, Scotland.
ROBERTSON, ROBERT, Scotland.
Roome, Henry Abercrombie, India.
Rosenberg, Samuel, Russia.
Russell, Francis Rutherford, Scotland.
75 Sakir, Maclar Cassime Nourmahomed, Mauritius.
Scholefield, George Edward, England.
Shaw, William, England.
Simpson, Alexander, M.A. (St And.), Scotland.
Slater, Harry Blaise, Cape of Good Hope.
80 Smith, Julian Carter Carington, India.
Stewart, William, England.
Sutherland, John Alexander, Scotland.</p> | <p>Sutherland, John Francis, Scotland.
Swan, William Henry, Ceylon.
85 Sykes, John Frederick Joseph, England.
Tait, William, Scotland.
Taylor, Birdwood van Someren, India.
Taylor, Herbert Coupland, England.
Taylor, John, Scotland.
90 Thomson, David George, Scotland.
Tulloch, James Kinnisan, Scotland.
Weir, Walter, Scotland.
Welch, Henry, England.
White, Percy Henry, England.
95 White, Robert Prosser, England.
Williams, Charles Robert, England.
• Wilson, Albert, England.
Wilson, John, Scotland.
WILSON, WILFRID, England.
100 Wilson, William, Scotland.
Woodhead, German Sims, England.
Wortabet, Henry George Luther, Syria.
103 Wylie, Hamilton, Scotland.</p> |
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THE DEGREE OF BACHELOR OF MEDICINE.

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| <p>Calder, Hugh Logan, Scotland.
Clark, Archibald Campbell, Scotland.
Drummond, Thomas, B.Sc. (Edin.), Scotland.
Hamilton, David James, Scotland.</p> | <p>5 Hobson, John Morrison, China.
Hoernle, Edward Frederick, India,
Lauder, William, Scotland.
Sanctuary, Thomas, England.
9 Walker, Charles Edward, England.</p> |
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The Ettles Prize has been awarded to
MATTHEW HAY, M.B., C.M.

The Beancy Prize has been awarded to
ROBERT ROBERTSON, M.B., C.M.

The Goodsir Prize has been divided between
WILLIAM J. DODDS, M.B., C.M., D.Sc.
CHARLES SMART ROY, M.D., C.M.

The Wightman Prize has been awarded to
ALEXANDER BRUCE LOW, M.B., C.M.

ERRATA IN CALENDAR 1878-79.

Page 86, line 23, *for* "Rev. Thomas Gordon," *read* "Rev. John Alison."

Page 332, line 14, *for* "J. G. Tart," *read* "J. G. Tait."

Page 347, after line 15, *add* "1877. Henry C. Robson, M.A."

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ROYAL HIGHNESS THE DUKE OF EDINBURGH, AND

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							1,097,248	8	4
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D.D.	<i>Robes and Hoods.</i>
B.D.	<i>Robes and Hoods.</i>
M.D.	<i>Robes and Hoods.</i>
M.B. & C.M.	<i>Robes and Hoods.</i>
Sc.D.	<i>Robes and Hoods.</i>
Sc.B.	<i>Robes and Hoods.</i>
M.A.	<i>Robes and Hoods.</i>

PULPIT AND BAR GOWNS.

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